

# Improving your CV Careers Workshop Computer Lab Nov 2016

Susan Gatell
Careers Adviser

Careers Service

# What's the purpose of your application?

- Keep you out of the reject pile
- To <u>quickly</u> get across your value and tech credentials from a scan read
- To provide <u>evidence</u> that you'll be a good match

# Thinking like a Recruiter

# Positive assumptions:

- Cambridge = smart
- Learn fast
- Already competent developer
- You'll have a lot of options

# Prejudices or concerns:

- Solo or team player?
- Communications skills?
- Are you the best?
- What are your gaps?

# The CV checklist – 3 things to get right





# **Clarity - Design does matters**

### Education

2012-2015 University of Cambridge, BA in Computer Science.

2008–2012 Tudor Vianu National High School of Computer Science, mathematicsinformatics (intensive Computer-Science section), Bucharest, Romanian Baccalaureate overall mark: 9.5/10.

Work Experience

2011 Summer internship, ProSitCons S.R.L, Bucharest.

ProSit Cons S.R.L. is a Romanian company which provides Enterprise Resource Planning(ERP) software solutions. I had the opportunity to gain insight into the development of the "real" software that must comply with costumer requirements.

Awards

2005-2011 National Olympiad of Computer Science, Romania.

My passion for computer science started in elementary school; ever since then I have spent a great deal of time learning advanced level algorithms and solving problems on many CS training sites for Olympiads. This sustained training has helped me qualify, compete at and win many awards at various Computer Science and mathematics competitions. Of these, my most notable results are:

- Silver Medal at the Romanian National Olympiad of Computer Science 2008, 2009, 2010, 2011
- Qualified for the Romanian National Olympiad of Computer Science 2005 to 2011

Skills

Coding Good: C/C++, JAVA Basic: RUBY, JAVASCRIPT, SML

Tools Linux(Arch, Ubuntu, Fedora), Oracle Databases, Git, LATEX

Other Aglile Development

Languages

Romanian Mothertongue

English Fluent

Address: 48 New Road

Esher Surrey KT10 9NU

Date of Birth: 16/09/1992

Email: <u>jmc223@cam.ac.uk</u> (university)

iamro1149@gmail.com (personal)

Phone: 07921970017

<u>Education</u>

2004-2011: Reed's School, Cobham

GCSE results: 4 A\*s, 3 As, 2 Bs

AS level: Chemistry A

Economics A
Mathematics A
Further Mathematics A
Physics A

A level: Mathematics A

Further Mathematics A\*
Physics A

STEP: Paper II 2

Paper III 1



# **Clarity - Design**

### EDUCATION

University of Cambridge

2013 - 2014

Master of Philosophy - Advanced Computer Science

Queen Mary, University of London (QMUL)

2012 - 2013

Beijing University of Posts and Telecommunications

2009 - 2012

Bachelor of Science - Telecommunication Engineering with Management

G.P.A. 89.2/100.0 (First Class Honor), Top 2% (8th/355) in department

Relevant Modules: Software Engineering, Internet Applications, Introductory to Java Programming

#### WORK EXPERIENCE

Research Assistant - Tsingshua University, China

Jun - Sep 2013

- Worked at Tsinghua Center for Speech and Language Technologies (CSLT)
- Explored whether topic model algorithm could be applied into people name disambiguation in web page
- F-measure on Second Web People Search Evaluation Workshop (WePS2) dataset was 0.80, 4th/17 compared to other teams

### Technical Assistant - QMUL

Jan - Mar 2013

- Worked at Center for Digital Music (C4DM) for melodic prediction research
- Analyzed people's emotional response to different types of music
- Designed interactive software to collect people's expectation to specific notes in melody

### PROJECTS

### Cambridge Transport Hackathon, University of Cambridge

Oct 2013

- Designed a journey planner app based on Google Maps API
- · This app accepted places people want to visit in one day
- It automatically gave the optimal way in which order people should visit and how to get there

### Olympic Tweets Classification, Final Year Project at QMUL Sep 2012 - Apr 2013

Implemented Naive Bayes to classify Tweets into different Olympic hashtags

### Car Parking System, Software Engineering Coursework Feb 2012 - May 2012

- Led, taught and allocated group members to complete the report and software
- · Led a below-average group to earn an above-average grade

### FTP Server

May 2012

Built a FTP server by C in Linux

### SKILLS

Languages: C#, Java, C/C++ (strong), SQL, Python, Haskell, ML (proficient), Prolog, MATLAB,

JavaScript, CoffeeScript, HTML (basic)

Systems: Windows, Unix

Software: Visual Studio, Eclipse, git, OpenGL, Elasticsearch

### EDUCATION

### 2013 - Present - M.Phil. ACS - University of Cambridge

### 2010 - 2013 - BA (hon.) Computer Science - University of Cambridge

First year exams: First Second year exams: First Third year exams: First

### 2009 - Summer School "Modern Computational Science" - University of Oldenburg

Two week summer school. Wide range of topics, such as random number generation, simulations in statistical physics, numerical differential equation solving, computational fluid dynamics, quantum chemistry, artificial neural networks and systems verification.

### 2007 - 2008 - Algorithms and Data Structures - University of Bielefeld

Classes on Algorithms and Data Structure part of the first year Computer Science course of the University of Bielefeld. Attended this 6 hour per week course while still going to school. Obtained grade of 1.0 (best possible grade) in end of year examinations.

### WORK EXPERIENCE

### Palantir Technologies - Forward Deployed Engineer - Summer 2013, 3 Months

- Implemented backend for typeahead functionality for the Palantir Phoenix database using Elasticsearch
- Designed and implemented APIs to expose this functionality to other Palantir systems
- Integrated typeahead with web frontend, using CoffeeScript, Handlebars and select2
- Worked on system for data import

# Clarity – Top CV real estate

# Where the eye goes

### Working Experience

2012 – September 2013, Optimization Algorithm Expert | Quintiq – Advance Planning and Scheduling Systems

- Youngest member of a highly profiled Algorithm Expert team, of selected highly qualified programmers
- Develop optimization algorithms in operations research and AI: complex mathematical programming, linear
  programming, path optimizations, genetic algorithms, heuristic search techniques, constraint programming,
- Design and implement optimization solutions, analyze existing solutions, as well as design and experiments.

### 2011 – 2012 September, Faculty Research Assistant | Monash University

- Robotics and quantum applications: complex mathematical algorithms, image processing, natural speech interfaces, low level drivers and microcontroller communication.
- Independent: novel algorithms allowing random number generators to perform in linear time upon high
  throughput requests across network, flexible robot platform architecture, novel natural speech interface
  based on graph theory and suffix tree, and novel algorithms to perform advance navigational functions.
- True random number generator utilizing a quantum device generating true random bits.
- Robot drivers extended for development platforms. Robotic benchmark environment for agent controllers to be tested, simulating robot-human interactions, with the objective of examining the ideas of free will.
- Quadrocopter UAVs to web development.
- Most projects were developed in C++, Python and Java

#### 2009 - 2010, Web Programmer | Trax Business Solutions

- Web development front end programming for multiple web applications XHTML, CSS, JavaScript and Ajax
- 2007 2009, English Teacher Creative English Course | Sales Representative Standard Charter M-Cash | Casino Staff Snoqualmie Casino, Snoqualmie, WA, USA

### Open-Source

### Parallax Eddie Robot Open-Source Driver | Single Author

A library allowing the robbt to perform advance navigational and sensor functionalities by performing microcontroller communications from a computer to the serial board. Built with the ROS (Robot Operating System) framework, developed in C++ and Python. Currently utilized by NASA Jet Propulsion Laboratory.

#### Research

### Faculty Research Assistant

(As described in the above section, Work Experience)

Undergraduate Final Research Project — "An Interactive Robot Platform with Reactive Robot Controllers" Independently developed a robot platform (drivers and underlying systems) for controllers on personal robots (Parallax Eddie robot) to navigate, track humans (using Kinect 3D camera) and objects, be controlled through a natural speech interface, and communicate back to the users. The work extended by developing a reactive robot controller that will autonomously operate the robot to follow users and perform tasks upon speech interactions. Project was developed with C++ and Python.

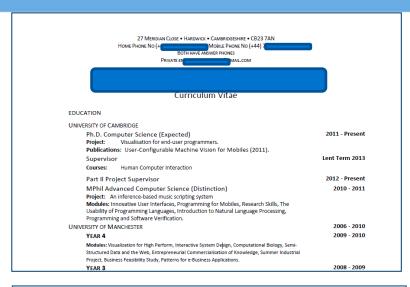
#### Object Segmentation Research Project

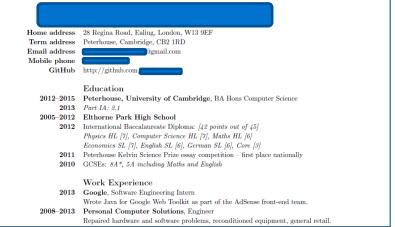
Developed an object segmentation program to detect multiple objects within images; evolving around the work of J. A. Sethian's Level Set theory. The project was developed in Java.

# The dead zone

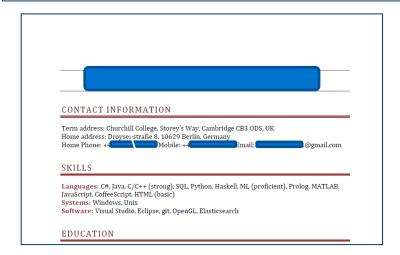


# Clarity - Do the "first screen" test



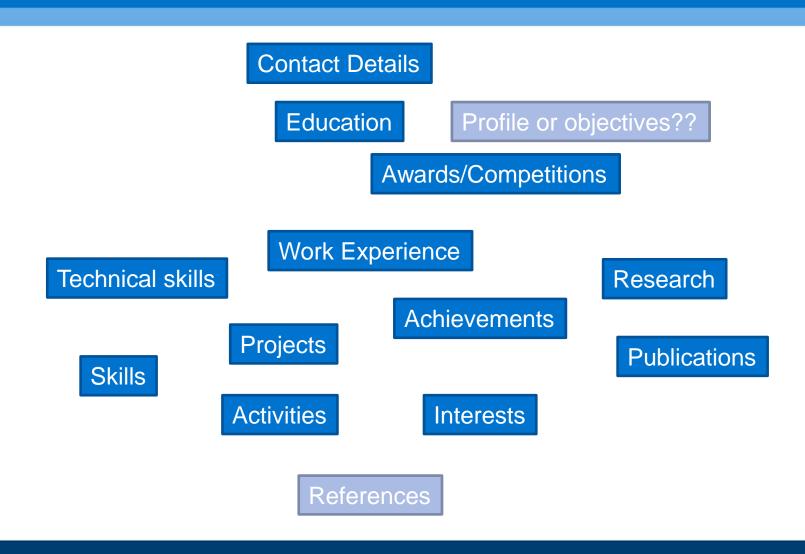


St John's College, Cambridge, CB2 1TP WORK EXPERIENCE Goldman Sachs London, UK Summer Analyst, Securities Division Jun - Aug 2013 Interned at Divisional Strategies Group, the performance analytics sector for the Securities division · Quantitatively analysed the performance and client relationship of current salespeople to identify opportunities for client refocusing using Slang, the firm's proprietary programming language · Designed an algorithm for locating the break in client coverage, and recovering from potential client loss · Took part in an ongoing project on predicting the firm's revenues Conducted LASSO regression on the public market indices to identify potential factors for predicting o Aided my team in improving the current regression tests, by adding new datasets and regressors to the Google Kraków, Poland Jul - Sep 2012 Summer Intern, Cluster Management Team . Improved the Resource Weather search engine, an integrated resource management console of Google's · Rewrote the existing C++ code base into Java and added new features Introduced searching by additional parameters, enabling faster and more intuitive search experience Developed a new data structure for keeping information about web views in Resource Weather Improved the ranking algorithm that determines which search results should appear before others, based on the relevance of the result page to the user's query



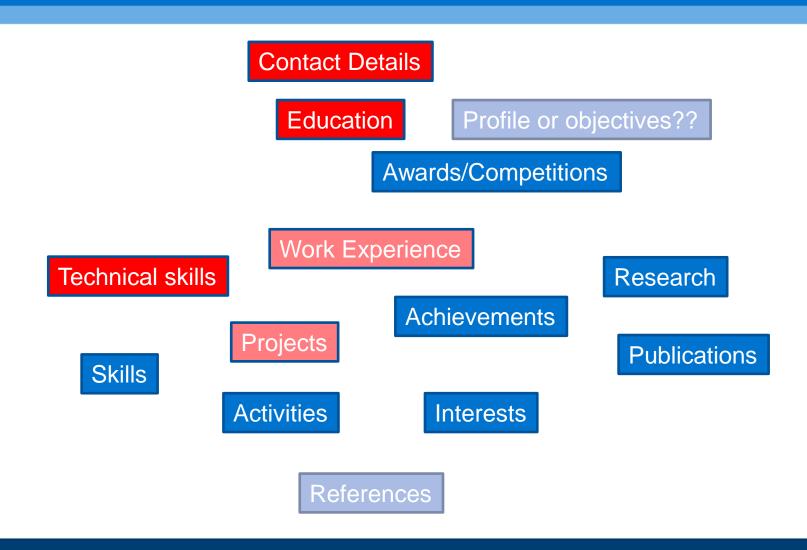


# **Content - Building Blocks**





# **Content - Building Blocks**





# **Content - Education**

**EDUCATION** 

Gonville and Caius College, University of Cambridge

BA Hons Computer Science (with Mathematics)

Predicted grade: II.1

A levels:

2004-2011

2011-2014

Nottingham High School for Boys, Nottingham

Maths (A\*), Further Maths (A\*), Physics (A), Chemistry (A)

GCSEs: (Including Maths and English); **8A\*s, 3As** 

STEP Mathematics: STEP I (1), STEP II (1), STEP III (1)

# **EDUCATION**

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# Content – Education...how much to include?

### University of Cambridge (2013-2014): MPhil Advanced Computer Science.

Member of Christ's College, Cambridge.

# Aberystwyth University (2008-2012): BEng Software Engineering (including industrial year). Academic Awards:

- Best Computer Science Graduate (2012).
- Gwobr Elsie Pritchard Prize for Aberystwyth University (2012).
- Evan Morgan Scholarship for Computer Science for Aberystwyth University (2008).
- Excellence Bursary for Aberystwyth University (2008).

#### Final Year Performances:

- Open Source Development Issues 88%.
- Agile Methodologies 84%.
- Engineering Knowledge Based Systems 83%.
- Professional Issues in Software Engineering 83%.
- Developing Internet-Based Applications 81%.
- Internet Services Administration 73%.
- Dissertation 69%.
- Formal Methods in Software Engineering 65%.

#### Selected Previous Performances (Average 77%):

- Introduction to Communications and Telematics 88%.
- User Centred Design and Human Computer Interaction 86%.
- Modelling Persistent Data 85%.
- Mobile, Embedded and Wearable Technology 83%.
- Advanced Mathematics Driving License for Computer Science 81%.

### Llanidloes High School (2001-2008).

#### A-Levels (500 UCAS Points):

- IT A.
- Maths A.
- History A.
- English B.

### AS-Levels:

Critical Thinking - B.

#### GCSEs (7 A\* & 3 A) including:

- ICT A\*.
- Business Studies A\*.
- English Language & Literature A\* A\*.
- Science (Double Award) A\* A\*.
- Mathematics A.

#### EDUCATION

#### UNIVERSITY OF CAMBRIDGE

Ph.D. Computer Science (Expected)

Project: Visualisation for end-user programmers.

Publications: User-Configurable Machine Vision for Mobiles (2011).

Supervisor

Courses: Human Computer Interaction

### Part II Project Supervisor

MPhil Advanced Computer Science (Distinction)

Project: An inference-based music scripting system

**Modules:** Innovative User Interfaces, Programming for Mobiles, Research Skills, The Usability of Programming Languages, Introduction to Natural Language Processing, Programming and Software Verification.

#### UNIVERSITY OF MANCHESTER

### YEAR 4

Modules: Visualization for High Perform, Interactive System Design, Computational Biology, Semi-Structured Data and the Web, Entrepreneurial Commercialisation of Knowledge, Summer Industrial Project, Business Feasibility Study, Patterns for e-Business Applications.

### YEAR 3

Project: Re-implementation of Microsoft AutoCollage Modules: Applying UML and Patterns, Concurrency, Theory of Games and Game Models, Advanced Databases, Computer Vision, Model - Based Software Design, Third Year Project, Enterprise Management, Managing Finance in Enterprise, Data Integration.

### YEAR 2

Modules: Fundamentals of Databases, Imperative Programming with C and C++,
Operating Systems, Computer Networks, The Implementation and Power of Computer
Languages, Software Engineering, Practical and Transferable Skills.

### YEAR 1

Modules: Object Oriented Programming with Java, Mathematical Techniques for Computer Science, A Computational Model, Reasoning about Programs, The Underlying Machine, Artificial Intelligence Fundamentals, First Year Team Project.

#### BRADFORD GRAMMAR SCHOOL

A Level ICT (A), Business Studies (A), Mathematics (B). 1996 - 2006
AS Level ICT (A), Mathematics (B), Business Studies (B), Physics (C).

GCSE A\*, A, A, A, A, A, B, B, C



2011 - Present

Lent Term 2013

2012 - Present

2010 - 2011

2006 - 2010

2009 - 2010

2008 - 2009

2007 - 2008

2006 - 2007

# Content – Include a Profile or Objective at the top?

# OBJECTIVE

Software developer using clear and reliable code to create bespoke products.

# Career Objectives.

I wish to become a highly competent senior software engineer for a reputable company. I believe that I possess the dedication, motivation, business knowledge and technical skills in order to fulfil my potential and achieve this target. Through my prior employment at GlaxoSmithKline and Goldman Sachs, I have proven myself able to perform at the highest level and under considerable pressure. This, in addition to key team-working skills developed over a number of years and a competent background in academia, represented by my First Class Honours Degree, makes me a fine graduate or experienced hire candidate within the corporate sector.

# Career Objective

I am a lifelong learner. Nothing is more satisfying to me than absorbing knowledge and producing intellectual work, specifically solving problems algorithmically in the field of computer science. It requires dedication and commitment, but they will always be offset by the intellectual growth in reward. I am passionate to pursue this career path; solving complex algorithms and applying them to actual life problems, while seeking the opportunity to make even the smallest difference to the world, or at least gain the knowledge that will eventually allow me to do so.

# **Content – Profiles**

# PERSONAL SUMMARY

In my third year, I'm looking to demonstrate and expand my skills and enthusiasm into a meaningful career in software engineering. I'm analytical, creative and hard working. I have developed strong interpersonal skills and a logical approach to everything through academia, work and extra-curricular activities. I am detail-orientated and used to working under pressure.

# Profile

I am a confident student in my second year of studying Computer Science at The University of Cambridge, with experience leading and motivating others as well as working as part of a team. I am searching for a 2015 summer internship or placement as a software engineer/in the finance sector/in the technology industry (depending on what I am applying for.

# Personal Profile

An enthusiastic, hardworking computer science student who is particularly interested in the mathematical and theoretical side of the subject.

# **Content - Technical skills**

#### TECHNICAL SKILLS

#### Languages (self taught)

- C/C++ 10+ years experience
- Python for client/server applications
- PHP together with HTML and CSS for website development
- FORTRAN90 HPC simulations

### Libraries

- Boost for high-quality ensemble calculations
- OpenMP/MPI threading code on 8-core desktops to 300-core HPCs.

### Systems

- git version control
- gdb and valgrind Avoided slow memory leaks or inefficient code for running long numerical integrations.
- MySQL Used in administrator role, including database design.
- Linux including bash scripting and data analysis via awk

#### TECHNICAL SKILLS

I usually work with Python (8 years) or C++ (5 years) using Linux, zsh, VIM & L<sup>M</sup>TEX, however in the past I have used a wide range of electronic design and programming tools:

Electronics

Embedded Systems PIC, Arduino, FPGA Electronic Design: VHDL, Verilog, SystemC SPICE, Modelsim, PCB layout

Programming

Languages: Perl, Ruby, Matlab, R, Java, Haskell Databases: Access, MySQL, PostgreSQL Docs: Beamer, Postscript, RST, Sphinx Web: Ajax, DOM, HTML, PHP, SQL, Rails, Django OSs: OpenBSD, Solaris, Mac Varsion Control: Git, Mercurial C++: Template programming, STL, Boost, DOxygen Tools: make, scons Misc: Networks, GPGU programming, XML, SVG

## Relevant Experience

WPF, C#, .NET	Improved usability of FX trading applications at Morgan Stanley by iterating on the interface to present data more intuitively, working with a team of 3	2012
Python	Learnt about the different technology platforms used at JP Morgan during a 'Hackathon' & Spring Week in Technology	2012
ASP, SQL	Lead a team of 3 to develop a web app for my Mensa chapter	2011
PHP, HTML, CSS	Supported a digital experiment to conduct behavioural economics research with teams from the University of Warwick and Mumbai	2011
Nmap	Audited my school LAN's security & assisted school authorities with patching buffer overflow vulnerabilities	2011
C#, Unity Framework	Software lead on a Game Design club I co-founded. Developed a 3D educational game for an NGO	2010
Java	Developed a student management program for the school counsellors	2010
Mindstorms NXT-G (LabVIEW)	Worked with a team of 3 for the Indian Robotics Olympiad. Primarily the software lead, but also helped and learnt about the structural engineering tasks and general coordination between members	2010

### SKILLS

Languages: C#, Java, C/C++ (strong), SQL, Python, Haskell, ML (proficient), Prolog, MATLAB, JavaScript, CoffeeScript, HTML (basic)

Systems: Windows, Unix

Software: Visual Studio, Eclipse, git, OpenGL, Elasticsearch

# Technology Skills

OS Linux (primary) and Windows

Programming C++, Java, Python, Ruby, Assembly Language, C#, Eiffel, Oracle, SQL, HTML, CSS, JavaScript, AS3
Frameworks Robot Operating Systems (ROS), Ruby on Rails, Groovy on Grails, OSGi, ASP.net

Others SSH, Shell, UI Design (futuristic minimalist), Java Swing, Java Servlet, JSP, Groovy, Web design, Web

Development, Apache Felix, Apache Karaf, Maven, JPA, JSON, XML, Ajax, MVC, Git, SVN, Flash animation, UML, Agile development



# **Content - Work Experience**

### WORK EXPERIENCE

Goldman Sachs

London, UK

Summer Analyst, Securities Division

Jun – Aug 2013

- Interned at Divisional Strategies Group, the performance analytics sector for the Securities division
- Quantitatively analysed the performance and client relationship of current salespeople to identify
  opportunities for client refocusing using Slang, the firm's proprietary programming language
- Designed an algorithm for locating the break in client coverage, and recovering from potential client loss
- Took part in an ongoing project on predicting the firm's revenues
  - Conducted LASSO regression on the public market indices to identify potential factors for predicting revenues
  - Aided my team in improving the current regression tests, by adding new datasets and regressors to the model

Google

Kraków, Poland

Summer Intern, Cluster Management Team

Jul – Sep 2012

- Improved the Resource Weather search engine, an integrated resource management console of Google's resources
- Rewrote the existing C++ code base into Java and added new features
  - o Introduced searching by additional parameters, enabling faster and more intuitive search experience
  - o Developed a new data structure for keeping information about web views in Resource Weather
  - Improved the ranking algorithm that determines which search results should appear before others, based
    on the relevance of the result page to the user's query

J.P. Morgan London, UK

Intern, Spring Week in Technology

Apr 2012

- Work-shadowed professionals and business leaders; actively attended networking sessions and workshops
- Participated in a team-based coding challenge
  - o Studied various financial instruments, derivatives and their underlying assets
  - Designed a real time engine that could subscribe to the market feeds and calculate the implied volatility for options using the Black-Scholes model
    - Placed in the top 5 among all participants

### WORK EXPERIENCE

### Palantir Technologies - Forward Deployed Engineer - Summer 2013, 3 Months

- Implemented backend for typeahead functionality for the Palantir Phoenix database using Elasticsearch
- . Designed and implemented APIs to expose this functionality to other Palantir systems
- Integrated typeahead with web frontend, using CoffeeScript, Handlebars and select2
- Worked on system for data import

### CV – Work Experience ctd

#### EMPIC - Summer 2012, 2 Weeks

- Responsible for designing and implementing a prototype for a web service for PDF and web forms.
- When a user opens a form, it is will be partially filled out automatically by linking user data with existing databases. It can be completed and submitted using a browser.
- System was successfully implemented using Apache Tomcat, HTML/JavaScript websites and Java Servlets.

### Fraunhofer FIRST Berlin - Student Assistant - Summer 2011, 6 Weeks

- Responsible for designing and implementing a complete face recognition system (face detection, face recognition, user database) and integrating it with Unity3D.
- Implemented accurate, real time face detection, by complementing the standard routines available in OpenCV.
- Tested a number of different approaches for face recognition and analysed their performance using both standard datasets and more realistic use case scenarios.
- Final face recognition system based on a combination of statistical methods including Kernel Principal Component Analysis and Linear Discriminant Analysis, all of which were implemented using C++/OpenCV.
- · Implemented database module for storing user data using MySQL and C#.

#### Fraunhofer FIRST Berlin - Intern - Summer 2010, 4 Weeks

- Developed prototype for whole-body motion detection via webcam using C# and Empu/OpenCV.
- · Improved existing module for gesture recognition.



# Content - Work Experience...tell me more...

	Work Experience
2013	Google, Software Engineering Intern
	Wrote Java for Google Web Toolkit as part of the AdSense front-end team.
2008-2013	Personal Computer Solutions, Engineer
	Repaired hardware and software problems, reconditioned equipment, general retail.
2012	Swogo, Intern
	Worked as part of a startup team to improve data collection techniques and resources.
2009-2012	Freelance Web Designer
	Created websites for clients including high schools, photographers and landscape gardeners.
2009, 2010	GMI, Work experience
	Completed two summer work placements on the interactive teams at Global Market Insite.

WORK EXPERIENCE	
GOOGLE INC.	Summer 2012
User Experience Intern	
SKIN ANALYTICS	2011-2012
Usability Consultant & Application Developer	
J. P. MORGAN CHASE & CO	Summer 2009
Summer Analyst (Technology – App-Dev. Graduate job offer) Securitised Product Group (SPG). Risk management software development.	
ALPHA KAPPA PSI	2008 - 2010
Web Developer	
Developing a MySQL database with a PHP front end UI. Will be used in the next few months by more than 100 regular users.	

# Content - Work Experience...tell me more...

# WORK EXPERIENCE



Cavendish Laboratory, University of Cambridge · October 1 2014. - present

Doctoral Student



CERN – the European Organization for Nuclear Research · September 1 2014. – present

Doctoral Student



Petnica Science Center, Serbia · August 7 2014 - present

· Professional associate and lecturer



CERN – the European Organization for Nuclear Research July 1 2013. – June 30 2014.

Technical Student



Microsoft Development Center Serbia Mart 11 – June 30 2013.

Data Science Associate



International German program, Munich, Germany · 19.06.2012 - 14.08.2012.

Participant and DAAD scholarship holder

# **Content - Projects**

# Selected Personal Projects

- 2013 Droppp.in Ruby on Rails application using Google Maps API.
- 2012 Degreees for Android Ported Finely.co's Degreees.com web app to Android.
- 2011 Project Euler Solved a number of ProjectEuler.net problems, including number 306 on combinatorial game theory, on which I wrote an academic extended essay.
- 2010 Detention System Bespoke web-based system to manage detentions across my school using PHP and MySQL.

#### **EXPERIENCES**

- Graduation Project, Feb 2013 Jun 2013: Integer Programming Formulations for Sales-force Routing and their application using real data from the company IDEA Technology Solutions.
- Term Project, Oct 2012 Feb 2013: Accessibility Violations, which has the purpose of increasing
  the accessibility of the places for disabled people, by constructing web and mobile applications for
  violation checking and improvement.
- Ericsson Turkey, Jul 2012 Sep 2012: Participation in an international software project in communication domain as service engineer intern in R&D department.
- Microsoft Turkey, Sep 2011 Feb 2012: Microsoft Student Partner for Microsoft Turkey & Bogazici
  University. Developing WindowsPhone7 applications, which exist in the marketplace and being one
  of the writers of the book "WP7 Developing Applications".
- Microsoft Summer School, August 2011 Sep 2011, Istanbul: Developing skills in Microsoft technologies such as MSSQL, Silverlight, Azure, XNA, Windows Phone7, SharePoint, creating a movie application and a game application.
- Mercedes Benz Turk A.Ş., Jun 2011 Jul 2011: Training in body & parts production department for optimization of processes.
- Netiket Bilisim, Aug 2010 Sep 2010: Internship to construct the database of a hypothetical company, by writing a web application program to create the interface for managing the database.

### PROJECTS

 ${\bf Cambridge\ Transport\ Hackathon,\ University\ of\ Cambridge}$ 

Oct. 2013

- Designed a journey planner app based on Google Maps API
- This app accepted places people want to visit in one day
- It automatically gave the optimal way in which order people should visit and how to get there

Olympic Tweets Classification, Final Year Project at QMUL Sep 2012 -  $\mbox{Apr}\ 2013$ 

 $\bullet$  Implemented Naive Bayes to classify Tweets into different Olympic hashtags

Car Parking System, Software Engineering Coursework Feb 2012 - May 2012

- $\bullet$  Led, taught and allocated group members to complete the report and software
- Led a below-average group to earn an above-average grade

FTP Server May 2012

• Built a FTP server by C in Linux





# Content – Projects...useful if work exp limited

Experience

Languages Java, C#, Lua, Verilog, Prolog, ML, C/C++.

Final year Independent project: Implementing pipelining in a simple processor project Designing advanced processor features and using Bluespec to sythesize it

onto an FPGA

Second year Cycle Path Mapping using .Net Gadgeteer.

Group project Worked as part of a randomly selected team of five to create a product for our

client.

Interfaced between low level drivers and high level software to create a

complete system.

Android App RSS News Reader.

As part of a team of two created a simple (but high quality) android

application to cache and display the latest BBC news.

Summer Work
July 2008/9
Oxford Computer Consultants; created an automated tool to perform financial analysis. Returned several times to implement additional

features. Assisted in developing website, as well as testing documentation

Visual Studio processes.

# **EXPERIENCE**

2013

Leadership

2011 -

Individual Project Third year student project: Implementing 3D graphics with soft vector processors

2013 – Using research-developed BlueVec to implement a rendering pipeline on FPGA

Work Experience Frontier Developments plc

2013 Summer Intern (3 months)

Participated in the development and maintenance of in-house 3D graphics engine

• Implemented automated testing on Xbox One

Used professional version control and project management tools

Group Project Second year student project: Cycle Path Mapping Using Microsoft .NET Gadgeteer

Worked towards strict deadlines in a group of 5 randomly selected people

Ensured that the project was completed to the satisfaction of the client

• Was responsible for organisation and deliverables, outlining interfaces, scheduling

Developed a variety of components including low level hardware, middleware and

software

Teamwork Robinson College Football Club, Robinson College Boat Club

Requires co-operation and regular training to succeed in university league

Communication / Voluntary Teaching in Hungary

Taught over 40 hours of English classes in secondary school with and without assistance

Gave presentations in the school's English club

Demonstrated basic algorithms and OOP design through Java in Programming classes



# **Awards**

# SCHOLARSHIPS AND AWARDS Scholar of Google Anita Borg Memorial Scholarship Europe, Middle East and Africa for 2014 having demonstrated outstanding academic achievement, leadership and community involvement Scholar of Dositeja scholarship for the best students in senior years of study in Serbia, 2013 given by Ministry of Education, the Republic of Serbia Holder of DAAD scholarship for summer school in Germany 2012 Praise for outstanding achievement in the first and the second year of undergraduate 2012 studies given by Faculty of Mechanical Engineering, University of Belgrade, Serbia Holder of Belgrade City scholarship for the extraordinary students of Belgrade University 2011 Honorable Mention at the International Competition in Research Projects in Physics: 2011 First Step to Nobel prize for work on optical waveguide design 2010 Full scholarship holder for attending the Faculty of Computing

1

# **ACHIEVEMENTS**

- 2014 University of Cambridge Computer Science Year 2: Award for best technical group project "Exploiting the Raspberry Pi's GPU for general purpose computation"
- 2012 St Dominic's Sixth Form: Achievement Award for Top Achiever in Further Maths
- 2012 St Dominic's Sixth Form: Wings of Hope Achievement Award (for raising money for charity)
- 2011 St Dominic's Sixth Form: Finalist in the National Science and Engineering Competition
- 2010 Harrow High School: Certificates for Achievement, Effort and Progress in Maths, Science, Geography, DiDA



# **Activities / Interests / Extracurricular**

# Activities/Skills

**Team sailing, International Champions;** crew to the captain of the first team. Sailed weekly in a team of six for two years. Gained excellent teamwork skills both inside the boat and between boats. Ended up placing first in the British International Schools Championship in 2011.

**Combined Cadet Force;** participated in the school's cadet force for several years. Was responsible for organising activities for and ensuring well-being of groups of younger members. Reached final rank of Cadet Sergeant.

**Robotic Visions, Halls of Parliament;** Went to the Halls of Parliament to present our views on the future of Robotics in the UK to MPs after a successful presentation at a local event.

Languages: Native English speaker, advanced Dutch.

Interests: Sailing, Video games (and modding).

# SKILLS, ACTIVITIES & INTERESTS

Languages: Native in Korean; Moderate Proficiency in Japanese

Technical Skills: Java, C, C++, SQL, VBA, ML, Prolog, UNIX, MATLAB, LaTeX and Slang

Activities: Student Ambassador at Google, Member of Association for Computing Machinery

Interests: Long distance cycling, Beatboxing, Swimming, Classical guitar

Honors: 1st Place in 2009 International Robot Olympiad, 2nd Place in 2010 World Robofest in Mi

### **ACHIEVEMENTS**

- · Extensive knowledge of the Java programming language.
- · Good knowledge of the Android platform.
- Knowledge of C++, C#, Visual Basic, C, PHP, HTML, CSS, JavaScript, SQL, XML.
- Good grounding with Linux Fedora and Ubuntu distributions.
- Won 'Best Project Idea', 'Best Project Plan' and 'Best Visual Appeal' awards for our group university project – competing with over twenty other groups.
- · Grades 1-4 Piano.
- West Yorkshire Fire & Rescue Service Fire Safety Course to a bronze duke of Edinburgh award standard – community service.
- Sixth form IT representative for Bradford Grammar School at UK IBM Chairman meeting.
- Set up a day charity event for MENCAP raising over £250.
- . Won 'Pledge of the Year' award in the UK Chapter of Alpha Kappa Psi.

### EXTRA CURRICULAR

- Piano 9 years, Guitar 6 years.
- · Rowing Girton College, Cambridge
- Music Production 3 years
- · Creating and maintaining websites
- Playing tennis and golf
- Swimming and Skiing
- Snowboarding
- Running Four 10Ks and a half-marathon so far!
- Active member of Alpha Kappa Psi Business Fraternity

# Social Interests.

I have always had a strong love of technology and spend much of my spare time reading and expanding my knowledge. Aside from this, I am a very large sports fan and engage a myriad of different games and activities. Academically, I am currently studying part-time for an additional A-level in Economics due to my interest in the subject and wish to further improve my understanding of the clients I support. Additionally, I am beginning work upon an ambitious Android application based upon a social networking quiz concept. Importantly, I also enjoy music and travelling, having partaken in tours of China and Egypt in the past.



# Common questions, omissions and silly mistakes

How many pages?

1-2

Use a photo?

NO

Date of birth?

Not needed

Nationality?

Not necessarily

Bullets or paragraphs?

**Bullets** are better

Use the word "I"?

NO

Use adjectives?

Sparingly if at all

Use verbs?

YES

Full referees details?

NO

# **Skills often forgotten:**

- -Requirements gathering
- -Project management
- -Quality/testing
- -Documentation
- -Agile development

# Silly mistakes:

- -Don't name file CV.doc
- -Don't write to the wrong firm
- -Don't bend the truth

# **CV** checklist

# **Design**

- ✓ Good navigation?
- ✓ Clear blocks?
- ✓ Good use of the 'green zone'?
- ✓ Is it inviting and easy to read?
- ✓ Is the eye drawn to the most important content?

# **Content**

- ✓ More than just a transcript?
- ✓ Do the tech skills stand out?
- ✓ Obvious what you have done and how?
- ✓ Good use of vocabulary?

# The CV checklist – 3 things to get right





# **Job Match**

- Sculpt your CV to match the role you're targetting
- How?
  - Mirror the language they use in job ads
  - Rejig your sections
  - Use different headings
  - Reorder your bullets

# Job Match example

# Associate Product Manager, University Graduate

Mountain View, CA, USA · New York, NY, USA · Seattle, WA, USA · Kirkland, WA, USA Product Management · Full-time

Know someone who would be interested?

APPLY NOW

Find connections

Sign in to see your connections at Google

At Google, we put our users first. From innovative software products like Gmail, YouTube, Chrome, StreetView to pioneering mobile devices like the Android, we build products that organize the world's information and make it universally accessible to our users. The Product Management team works closely with our engineers to guide products from conception to launch, and with our business partners to generate profitable revenue streams. As part of the Product Management team, you bridge technical and business worlds as you design technologies with creative and prolific engineers and then zoom out to lead matrix teams such as Sales, Marketing and Finance, to name a few. You have a bias for action and can break down complex problems into steps that drive product development at Google speed. As a Product Manager, you can be part of shaping Google's next game-changer.

# Responsibilities

- Understand and analyze user needs.
- Help to define a product vision and strategy
- . Work with world-class engineers to build and launch new features

# Minimum qualifications

. BA/BS or MA/MS in Computer Science.

### Preferred qualifications

- · Strong technical abilities.
- Demonstrated capacity for developing and understanding strategy.
- Excellent written and oral communication skills.
- Deep interest in creating and analyzing products.
- · Strong organizational and analytical skills.

Don't just start with requirements

Understand what the role involves

What evidence do you have?

Build your CV/CL around this

# Cover letter scan reading basics

Where the eye goes

Dear ....,

I am currently studying a PhD in Engineering at the University of Cambridge and I want to apply for the position of Business Analyst at McKinsey Mexico.

My curiosity for consulting has grown over the past years and I was convinced about it when I became more familiar at the events that the career service at the University organised throughout the term. There are mainly three reasons of why I want to do consulting: the people I will work with, the learning and challenging experience it represents and the personal and professional growth it offers. Mckinsey is known to have a dynamic work environment with a sense of community. I want to be part of that diverse, entrepreneurial and dedicated team and work with people that challenge me. From meeting with McKinsey consultants, the learning experience is incomparable ranging from business and professional skills to personal and transcendental skills. I read that McKinsey spent more time and resources in developing its people and helping them grow and I'm convinced that this is a key element in their success.

I have actively sought for experiences that push the boundary of my limits and have a strong will and determination to be able to achieve what I set as a goal. Through my training and expertise in research I have developed a strong background in problem solving, and finding solution to challenges that have not been studied before or that we lack of understanding. Alongside my academic work, I have been able to take leadership roles in organisations outside my research. I am currently co-director of the Gates Cambridge Learning for Purpose programme (scholar-led professional development programme) where I have engaged with different stakeholders: Gates Cambridge Trust, Gates Scholars Council, the wider scholar community and a consultant we hired. My interest in wine, reneurship has also grown since I got to Cambridge. I volunteered in two start-ups where I gained insights about different business models and challenges of starting a new business. I strongly believe in the power of education, and I am passionate about learning and sharing knowledge this is why I have been studying all my life and have taught since I was in High School.

I believe that feeling intellectually challenged and enjoying the everyday work is the way to be successful and McKinsey offers a great opportunity to continue doing this. In addition, McKinsey is transforming industries and changing the world we live in. I want to be part of that change.

Yours sincerely,

Think about paragraph length

Determine what jumps out of the text

Plan your cover letter before you start writing!



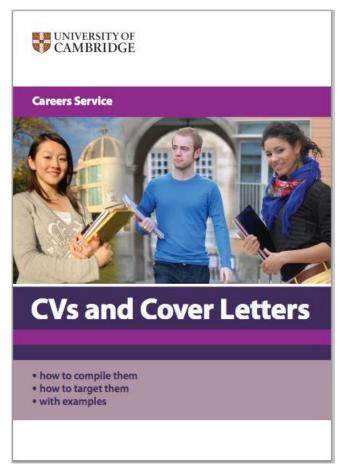
# **Shaping your cover letter**

- Not a repeat of your CV in narrative form
- 1 page only
- Paragraphs in readable chunks (8-10 lines max)
- Open with who are you and what are you applying for
- Express your motivation for the role / company / sector
- Highlight a few key things that show you match the job
- Does it reflect THEIR job?
- Get a native speaker to sanity check

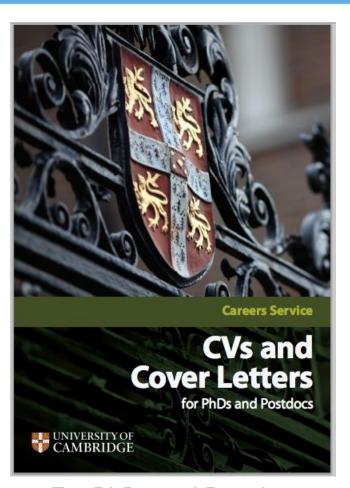


# Download one of our CV Books - advice & examples

http://www.careers.cam.ac.uk/library/Cvbook/index.asp



For Undergraduates and MPhils



For PhDs and Postdocs



# **The Careers Service**

# www.careers.cam.ac.uk



