NIKOLAY SLAVEV

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EDUCATION

University of Leeds
BSc Computer Science, 2015 – 2019

- **Modules 1st Year (Overall Grade: 83%) -** Logic and Sets (89%), Computer Architecture and Networks (89%), Computing (85%), Algorithms (83%), App Development .NET (81%), Designing for Usability (79%), Enterprise Information Systems (74%)
- **Modules 2nd Year (Overall Grade: 75%) -** Algorithms and Data Structures II (85%), Web App Development (82%), Numerical Computation (80%), Formal Lang and Finite Automata (80%), Social and Mobile Web App Dev (80%), Algorithms and Data Structures I (79%), Networks (79%), Artificial Intelligence (70%), Operating Systems (66%), Software Engineering (63%)
- **Modules 3rd Year (Current Grade: 75%) -** Machine Learning (87%), Computer Graphics (80%), Innovation (75%), Secure Computing (68%), Information Visualization, Parallel Computation, Web Services and Web Data, Mobile App Dev

High School of Mathematics and Natural Sciences, Blagoevgrad, Bulgaria
- **Overall Grade** (5.49/6.00) - Intense study of IT (6.00/6.00), Mathematics (5.25/6.00), English (6.00/6.00), Bulgarian (6.00/6.00)

EXPERIENCE

General Electric, Cambridge, UK
Software Engineer (Placement), July 2017 - July 2018

- **Overview** - Developing global market leading GIS and Asset Management tools supporting the Telecommunication, Electric, Gas, and Water industries.
- **DevOps Team** - Software automation and development on the whole product's portfolio covering Build, Code, Test, Monitor, Operate, Deploy and Release steps. Led the daily product failure resolutions by distributing the work to relevant employees.
- **Platform Team** - Core software development on the GIS products. Worked on new Mobile Enterprise products providing Electric Office and Physical Network Inventory functionalities.
- **Intern Team** - Project Leader for delivering a new product's idea - Logging Framework. Technical manager during its development.
- **Volunteering** – Delivered coding workshops at Hills Road Sixth Form College Cambridge. Participated in the "Fergus Fives" charity football event.

Airbus, Stevenage, UK
Insight Day, June 2018

- Learnt about space and defence technologies, and won a group challenge for proposing an apparatus to complete a space mission.

PROJECTS

Procedural Graphics Modeling of 3D Urban Cities - Final Year Project / Dissertation (Pending) Oct 2018 – May 2019
- Project for modelling random virtual cities with procedural algorithms. Primarily focused on streets generation.
- Used: QT, C++, OpenGL, Blender, MySQL

Mobile Android Application (Pending) Mar 2019 – May 2019
- Technical leader of a group project for the creation of a fully functional Android application with graphics and animation
- Used: Android Studio, Kotlin

News Agency Platform - Web Application (Pending) *Jan 2019 – Mar 2019*
- RESTful web application for posting stories to a server and listing news from multiple server sources.
- Used: Python (Django) and PythonAnywhere

Graphical 3D Scene – 3D Computer Graphics (88%) *Nov 2018 – Dec 2018*
- Individual project for creating a 3D scene with hierarchically moving objects controlled automatically and by user.
- Used: QT, C++ and OpenGL

Reporting Incidents Platform - Innovation in Local Government (Won two awards) *Oct 2018 – Dec 2018*
- Group project supervised by an IBM Innovation Leader. Won awards for most compelling prototype and presentation

Finding Best Path- Machine Learning (95%) *Nov 2018*
- Implemented a domain-independent reinforcement learning player to find the best path to a goal on a given environment
- Used: Reinforcement Learning, Q-Learning, Sarsa, Python and OpenAI Gym

Distinguishing Clothing Images - Machine Learning (98%) *Oct 2018*
- Designed and trained Artificial Neural Networks to perform image recognition of fashion items on a set of 70,000 images
- Used: Supervised Learning, Artificial Neural Networks, Python, NumPy, Keras, TensorFlow and Matplotlib

IoT: Real-Time Cameras and Sensors as a Service (Extracurricular) *April 2017 – Jun 2017*
- Project for recording 3D images hosted by the research group of Distributed Systems and Services at the University of Leeds
- Used: C# and multiple Raspberry Pi devices (suspended due to the start of my placement year at General Electric)

Booking System for Training Courses - Web Application (77%) *Feb 2017 – April 2017*
- Technical leader of a university group project supervised by the company "Elder Studios"
- Used: Python (Flask), HTML, CSS, JavaScript, Bootstrap and SQLAlchemy

Facebook Prototype - Social Media Web Application (80%) *April 2017*
- Used: AngularJS, Facebook API, OAuth, HTML, CSS and Bootstrap

Mobile Game Searcher - E-commerce Web Application (80%) *Jan 2017*
- Used: Python (Flask), HTML, CSS, JavaScript, Bootstrap and SQLAlchemy.

Rubik's Cube Solver – Lego Robot (78%) *Oct 2015 – Dec 2015*
- Technical leader of a group project for the creation of a Lego Robot to automatically and manually solve a Rubik's cube
- Used: Lego Mindstorms EV3 kit, Bluetooth and smartphone

TECHNICAL SKILLS

Software and Script Development	Web Development	Software and Infrastructure Automation
Python, Java, C++, C, C#, Ruby, Perl, JavaScript, Kotlin, Magik, Bash	NodeJS, AngularJS, Django, Flask, HTML, CSS, Bootstrap	XML, Ant, Ivy, Maven, Yaml, JFrog, ElectricCloud, Jenkins, Chef, Docker, Chocolatey
Databases	**Information Visualisation**	**Others**
SQLite3, SQLAlchemy, MySQL, PostgreSQL	Elastic Stack, HighCharts, Tableau, Excel	Git, Mercurial, QT, Chai, Junit, CentOS, Ubuntu, RabbitMQ, OpenGL, OpenMP

EMPLOYABILITY SKILLS

Teamwork
- Constant Agile team software development during my one-year professional working experience at GE
- Developing team software products at university and acquiring 1st class grades on all of them
- Working alongside ten other interns at GE for the development of new services for the company

Communication and Presentation
- Presenting product improvements during monthly company tech talks as well as remote product demos to clients
- Delivering weekly coding workshops to Sixth Form students during my placement year at GE
- Constant communication with engineers, managers and architects for implementations of new software feature

Analytical and Problem-solving
- Analysing companies, assessing trading opportunities and presenting data to the group as a Market Analyst at LUUTIS
- Solving extracurricular tasks such as Insight day challenge by Airbus and Hash Code challenge by Google
- Solving logical tasks at the Mathematical Linguistics society

Leadership and Management
- Managing product failure resolution at GE by organising daily meetings with software leaders, managers and engineers
- Leading a small intern team for a new GE product proposal and managing the technical activities during the development
- Managing the tasks distribution and theoretical resolution of group university projects

ADDITIONAL INFORMATION

University of Leeds
- Trading and Investment Society (Market Analyst), Nov *2016 – May 2017 | 2018 – Present*
- Gymnastics Club (Gymnast), *2018 – Present*
- Consulting Society (Member), *2018 – Present*
- Computing Society (Member), *2016 – 2017*

University of Cambridge
- Olympic Gymnastics Club (Gymnast), *2017 – 2018*

High School of Mathematics and Natural Sciences
- Mathematical Linguistics Society (Member), 2014 – 2015
- Wrestling club "Tangra" (Wrestler), 2012 – 2014
- Swimming club "Pirin" (Swimmer), 2012

REFERENCES

Academic: Dr Andy Bulpitt, Leeds School of Computing, A.J.Bulpitt@leeds.ac.uk, +44 (0)113 343 6816
Academic: Tom Kelly (PhD), Leeds School of Computing, T.W.A.Kelly@leeds.ac.uk, +44(0)113 343 1945