Ashish Tibrewal

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Education

University of Bristol, Bristol, UK

Master of Engineering (MEng) in Computer Science and Electronics   2012 − 2016

- Degree Classification: Upper Second Class Honours (2:1)
- Research Projects: Feedback Control & User Interface Design for a Low Cost 3D Scanner, Disaggregated Data Centres – Simulation & Analysis of Resource Allocation Algorithms

The Assam Valley School, Assam, India   2004 − 2012

Indian School Certificate (ISC), 2012 (Equivalent to UK A-Level)

- English - 88%, Mathematics - 90%, Physics - 80%, Chemistry - 86%, Computer Science - 98%, Environmental Education - 94%

Indian Certificate of Secondary Education (ICSE), 2010 (Equivalent to UK GCSE)

- English - 80%, Mathematics - 88%, Hindi - 76%, Sciences - 86%, Computer Applications - 94%, Social Studies - 90%, Environmental Education - 95%

Experience

Software Engineer at **HCL Technologies**, Noida, India   Oct 2017 − Present

HCL Technologies is a global IT services company that helps enterprises reimagine their businesses for the digital age and offers IT consulting, digital, cybersecurity, IoT, automation and engineering services.

- Researching and developing AI/ML products (PoCs and MVPs) for HCL clients
- Developing new features and optimising performance for their existing automation products
- Working with open source AI/ML frameworks and libraries such as Tensorflow, Caffe, Theano
- Exploring several image processing, text extraction, and deep learning algorithms and methods

Research Engineer at **Renishaw plc**, Wotton-under-Edge, UK   Jan − Sep 2015

Renishaw plc is a world leading engineering company with expertise in high-precision measurement and health care, and are listed on the FTSE 250 index – I was part of their Group Engineering division.

- Researched, performed a feasibility and concept study, and built a prototype of a passive 3D scanner
- Designed, developed, simulated, and analysed a serial communication and PI control system in VHDL
- Designed a high-level GUI application in C# to interface with the system. Designed APIs to support EmguCV, Microsoft SQL Server, and an in-house developed graphics rendering library
- Optimised performance by implementing a multi-threaded design, and integrated support for MATLAB and GNU Octave to run image processing script using Automation.
- Completed preliminary schematic and PCB design for the next iteration of development
- Drafted comprehensive documentation covering design and implementation details including software documentation. Involved in code/design reviews and presentations with senior members of the team
- Trained new interns on Renishaw's in-house RTL/HDL design, simulation, and synthesis tools
- Completed several advanced training courses run by both internal and external industry professionals

Software Analyst Intern at **Hidden Brains InfoTech**, Ahmedabad, India   Aug − Sep 2014

Hidden Brains InfoTech is a private IT & software development company with expertise in web, mobile application development, and embedded solutions – I was part of their Planning and Analysis team.

- Analysed client proposal documents, drafted software requirements specification (SRS), scope of work, business requirement, and database documents
- Designed UML models for several website and mobile application development projects
- Improved existing documents to minimise development required reducing delivery time and costs

Lawn Tennis Team Captain at the **Assam Valley School**, Assam, India   2010 − 2011

- Represented and led the Assam Valley School's lawn tennis team at several inter-school tournaments.

Achievements

Received an honourable mention for the **'Dean's International Intern Scholarship Scheme'** at the University of Bristol for my internship at Hidden Brains InfoTech   2014

Recipient of the **'Barry Thomas Scholarship for Computer Science'** at the University of Bristol   2012

Delegate to the **'International Exchange Programme'** at St.Ives High School, Sydney   2010

Recipient of **'Major Colours'** for **Lawn Tennis** and **Photography** at the Assam Valley School   2009 − 2011

Represented **'Assam'** at the **'Junior National Squash Championships'** at Mayo College, Ajmer   2007

Skills/Interests

Primary: Software engineering/development, Data science, Machine learning, Deep learning

Programming: C, C++, C#, Java, MATLAB, Python, Haskell, SQL, VHDL, Verilog

Scripting/Markup: HTML, CSS, JavaScript, PHP, Bash, Markdown, YAML, XML, LaTeX

Technologies/Frameworks: .NET Framework, Jekyll, Django, JUnit, Tensorflow, Keras, Caffe

Tools: Git, Vim, TravisCI, GNU toolchain, Valgrind, Visual Studio, Conda, Photoshop

Languages: English (Fluent), Hindi (Fluent), Assamese (Intermediate)

Interests: Programming, Reading, Photography, Tennis, Cooking/Baking, Travelling, Scuba diving

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Volunteering

Member of the Assam Valley School's *'Social Service League'* and their *'Literacy Programme Campaign'*

[*References available on request – CV updated as of Friday 2nd March, 2018*]