

Mandeep Sandhu

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Qualifications:

Sept. 2017 to Sept. 2018 **University of Edinburgh**
M.Sc. Computer Science

Sept. 2012 to June 2016 **Brunel University London**
B.Sc. (Hons) Computer Science with Artificial Intelligence
First-class Honours

Summary:

An aspiring software engineer with deep interests in software engineering, embedded, IoT and robotic systems. Passionate about Computer Science with knowledge in artificial intelligence and machine learning. Pride myself on ability to commit to learning difficult skills, tools and concepts. Aptitude for working autonomously or within a team. Determined to achieve outstanding results and delivering innovative and effective solutions. Have excelled in challenging endeavours outside of academia to develop a rounded and success-oriented character that will encourage development and achievement of long-term goals. Hold an overarching career aim of becoming a software professional.

Technical/Soft Skills:

Java, Kotlin, C++, Python, JavaScript, XML, HTML5, CSS3, SQL, Eclipse, MATLAB, Jupyter Notebook, Android, Windows, Linux, Bash, Git, UML, organisation and planning, problem-solving, teamwork and communication. Fluent in English, Punjabi and Hindi.

Knowledge:

Software Engineering, Software Architecture, Software Testing, Visualisation, Databases, Computer Networks, Operating Systems, Embedded Systems, Algorithms and Data Structures, Object-oriented Programming, Software Project Management, Human-computer Interaction, Artificial Intelligence, Machine Learning, Neural Networks, Robotics, IoT

Projects:

- **Robotics** - a full-stack autonomous planetary rover robotic system to sense, navigate and complete assigned tasks
- **City Street Exploration** – M.Sc. dissertation developing a novel interest-based routing algorithm for city exploration
- **IoT II** – a Bluetooth beacon based indoor localisation system using trilateration
- **IoT** – development of a machine learning based step-tracker system
- **Deep Learning** – a deep neural network for music genre classification
- **Neuro-evolution** – B.Sc. dissertation training neural networks using evolutionary algorithms

Experience:

March 2019 – present **Storm Ideas - Edinburgh**
Graduate Web Developer

Oct. 2018 to Dec. 2018 **Celtic Jewellery & Gemstones - Edinburgh**
Customer/Sales Assistant

Supplementary:

Catering Service volunteer (2006-08). Served free meals to underprivileged people. Part of the Edinburgh University Judo team. Brunel University Judo Club – Web Officer (2015-16), Treasurer (2012-2014). The Duke of Edinburgh's Award – Bronze (2008), Silver (2009). Enjoy playing the guitar 10+ years and practice Judo 7+ years.

References available