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 professional with a deep interest in software engineering, embedded, IoT and robotic systems. Passionate about Computer Science with knowledge in Artificial Intelligence and Machine Learning. Pride myself on the ability to commit to learning difficult skills, tools and concepts. A natural problem solver with an 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 achievement of long-term goals. Hold an overarching career aim of becoming a software professional.

Skills:

Java, Kotlin, Python, JavaScript, HTML5, CSS3, Eclipse IDE, MATLAB, Jupyter Notebook, Android, Windows, Linux, SQL, Git. Fluent in English, Punjabi and Hindi.

Knowledge:

Software Engineering, Architecture and Testing, Visualisation, Databases, Computer Networks, Operating Systems, Embedded Systems, Algorithms and Data Structures, OOP, Software Project Management, HCI, 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:

Mar. 2019 – Jun. 2019	**Storm Ideas - Edinburgh** **Graduate Web/Android Developer**
Oct. 2018 to Dec. 2018	**Celtic Jewellery & Gemstones - Edinburgh** **Customer/Sales Assistant**

Supplementary:

Part of the Edinburgh University Judo team. Brunel University Judo Club Committee Web Officer (2015-16) and Treasurer (2012-2014). The Duke of Edinburgh's Award – Bronze (2008), Silver (2009). Enjoy playing the guitar and practicing Judo.

References available