Mandeep Sandhu

mannysandhu.github.io
S1784723@ed.ac.uk
07577397121

Qualifications:

Sept. 2017 to Sept. 2018 (Expected)	**The University of Edinburgh** *M.Sc. Computer Science candidate*
Sept. 2012 to June 2016	**Brunel University London** *B.Sc. (Hons) Computer Science with Artificial Intelligence* First-Class Honours

---

Personal Summary:

An aspiring software engineer / developer with an interest in software engineering, embedded systems, IoT systems and robotics. Background in Computer Science with exposure to artificial intelligence projects and courses. Pride myself on ability to commit to learning difficult skills and concepts and determination to achieving outstanding results. Have applied and excelled in endeavours outside of academia to develop a rounded and success-oriented attitude that will encourage achievement of long-term career goals.

Soft Skills:

Communication, planning and organisation, enthusiasm, problem-solving, teamwork

---

Technical Summary:

Java, C++, Python, JavaScript, XML, HTML, SQL, Eclipse IDE, Android, Windows, Git

Body of Knowledge:

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

---

Key Projects:

- **Robotics** - autonomous planetary rover robotic system to navigate and complete tasks
- **IoT II** – Bluetooth beacon based indoor localisation system using trilateration
- **IoT** – development of a step tracker system with a machine learning step detection algorithm.
- **Deep Learning** – deep neural network for music genre classification
- **Neural Networks** – optimising neural network weights using evolutionary algorithms
- **Databases** – design and development of a Linux based MySQL database

---

Extracurricular:

Catering Service volunteer (2006-08). Served free meals to underprivileged people from the local community. Presently 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). Play the guitar 10+ years and practice Judo 7+ years. Fluent in English, Punjabi and Hindi. Website@ mannysandhu.github.io

References available