

# Mandeep Sandhu

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*Scan here for website*

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## Education:

Sept. 2017 to Sept. 2018  
(Expected)

The University of Edinburgh  
M.Sc. Informatics

Sept. 2012 to June 2016

Brunel University London  
B.Sc. (Hons) Computer Science with Artificial Intelligence  
First Class Honours

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## Languages / Tools:

Java, Python, JavaScript, XML, HTML, SQL, Eclipse IDE, Android Studio, Visual Studio, Git

## Courses / Knowledge:

Databases, Software Engineering, Networks, Artificial Intelligence, Operating Systems, Algorithms, Data Structures, Project Management, HCI, Machine Learning, Neural Networks, Robotics, Internet of Things

## Projects:

Robotics - conceptualisation and development of a planetary rover robotic system to autonomously navigate and perform tasks in a mapped environment.

IoT – development of a step tracker system interfaced to an android app. Implemented using Nordic and IMU board with a machine learning step detection algorithm.

DNNs – exploration and analysis of deep neural networks for image classification.

B.Sc. dissertation – an investigation into the effectiveness of evolutionarily trained Artificial Neural Networks.

MySQL Database – design and development of a Linux based MySQL database.

Android App – design and development of an android app tailored to specific users using HCI principles.

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## Experience:

Ramgharia Sabha – Service volunteer (2006-08). Served free meals to underprivileged people during lunch hours. Coordinated staff strategies to ensure service ran efficiently during busy hours. Provided vital line of communication to ensure kitchen is fully stocked.

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## Supplementary:

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 and practicing Judo. Fluent in English, Punjabi and Hindi.

**References available**