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# G  S u r a j

## Work experience

**GLite LLP Singapore**                                                                 **June 2016 - August 2016**
- Worked with a team of remote developers to help with QA testing during the development of an Android application for Pizza Hut.
- Helped with UX and UI wire-framing for Union Energy Singapore.

**GlaxoSmithKline Pharmaceuticals London**                     **September 2016 - October 2016**
- Research and analysis of common web application vulnerabilities to find solutions to mitigate these issues.
- Shadowed colleague during a risk assessment to understand the processes and intricacies behind a large MNC alleviating security issues.

## Projects

**Co-operate**                         http://www.cooperate.sg/                         *Web Designer*

*Cooperate aims to connect capable tutors to underprivileged, underperforming youth.*
- Started with Schoolmates and worked with National Youth Council of Singapore to secure a $1500 grant
- Initially possessed little to no knowledge of HTML and CSS

**Extended Essay Research Project**

*Is Hash Search always more effective than conventional search algorithms?*

**Neural Network Project**         https://git.io/vKTLq         **Handwriting Recognition Software**

*A research project to understand machine learning which culminated in a web-app*
- Main objective was to design a website to explain to beginners what Neural Networks are.
- Specifically we focused on Restricted Boltzmann Machines
- Ended project with a handwriting recognition app to guess numbers from 0 – 9 using the MNIST Dataset

**Bare-metal Raspberry Pi Group Project**         https://git.io/vKTLE         **Pac-Man from scratch in C**
- Pac-Man written from scratch in bare-metal C on a raspberry pi without the source code. A custom lego controller was also built for this project.
- https://github.com/group34-2016/Baremetal-Pac-Man

*A research project to understand machine learning which culminated in a web-app*

**ICHack Hackathon**                         *https://git.io/vHcnp*

*Participated in a hackathon and tried to integrate a pillow into the IoT to measure sleep metrics*

**Competitive Web Application**
- Users of similar ranks are pitted against each other in short coding battles
- Business facing in that companies can view such profiles (and highest ranked users geographically, etc.) and introduce their own questions

## Education

**Imperial College London**                                                                                 **Computing**
- MEng in computing (G401). Started in 2015 and graduating in 2019. Obtained an A grade for the first class grade for the first year.

**Anglo-Chinese School (Independent)**
- International Baccalaureate Diploma obtained for Computer Science, Mathematics and Physics at higher level (HL) and Business & Management, Language & Literature and Hindi B at standard level (SL). Obtained a score of 42/45
- Member of Photographic society and organized the inter-school photo competition *Singapore Youth Photography Competition* with a committee.
- Member of Drama Club (Independent Stage) and obtained First place in the inter-school competition *Singapore Youth Festival*
- Participated in International Model United Nations Conference (IMUNC) 2013 and Singapore International Model United Nations (SIMUN) 2013