PREEYA JOSHI

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ACADEMIC BACKGROUND

UNIVERSITY	Imperial College London

MEng Computing (On track for a 1st)

1st Year: Abstract Data Structures, Computer Architecture, Mathematics, Logic , Functional and OO Programming

2nd Year: Statistics, Compilers, Concurrency, Models of Computation, Software Design, Reasoning about Programs, OS design

A LEVEL			Woodhouse College
A2	**(A*)** Mathematics	**(A)** Further Mathematics	**(A)** Physics	**(B)** Spanish
AS	**(A)** Mathematics	**(A)** Further Mathematics	**(A)** Physics	**(A)** Spanish

CAREER BACKGROUND

Undergraduate Teaching Assistant, Imperial College London September 2014 – Present
- Personal Programming Tutor : Haskell, Java and C
- Take tutorials for a group of Computing/Joint Maths & Computing Students and mark coursework

Officer Cadet at University of London Air Squadron (ULAS) November 2013 – Present
- Member of Adventurous Training committee, Sys admin for website

Google Software Engineering Intern July 2014 – September 2014
- Worked on a feature to allow you to find something to watch using your Google Glass and then stream it directly to your TV.
- Handled the frontend, integrating backend within Google infrastructure, wiring of backend to machine learning model and integrating web frontend for feature into existing debug web frontend .
- The Glass frontend was done using the GDK, Android and Java.
- The debug web front end was Java and used GWT.
- The backend and wiring involved using GWT RPC and internal file systems.

Selex ES Software Engineering Intern July 2013 – September 2013
- Worked on creating a dynamic physical processing network which is visualised and configurable via Augmented Reality.
- The visual portion involved QR code tracking and an augmented reality UI displaying the virtual properties of devices .
- I reverse engineered parts of ZBar, an existing QR code recognition library written in C.
- This allowed me to modify the way QR codes were analyzed.
- I then embedded a live camera feed augmented with the recognised devices and their properties in a responsive GTK GUI.
- Implemented a Java backend which lets devices broadcast their capabilities and interact through a zookeeper server node.
- The Java backend involved using Apache CXF distributed OSGI, Zookeeper and Apache Felix Framework.

Olympic Volunteer July 2012
- Member of the Printed Results Distribution team.
- Responsible for delivering important documents to the correct recipients (Reliability).
- Vastly improved my communication skills through working with many people from a wide variety of backgrounds.

ACHIEVEMENTS

- Grocer's Company Queens Golden Jubilee Scholar (2012-2016)
- Imperial Scholarship Athlete (2012-2016)
- Gold medal in Sparring, Silver medal in Paired Poomsae (BSTF Student Taekwondo Nationals 2014)
- 1st place Facebook UK Universities Hackathon 2013
- 2nd place Facebook University Finals Hackathon 2013
- 1st place UCL FindS Hackin' the City Hackathon 2013
- Recipient of Student Activity Award 2013-2014 for being a role model within the club.
- Selected for the Lloyds Register Engineering Experience (one of six) to Houston, Texas 2011.
- UK finalist in the National Science and Engineering Competition 2011.
- Winner in the regional Young Engineers Competition for Product Development and Marketability
- 3* Kayak Paddler, L1 UKCC Canoe and Kayak Coach