

Preeya Joshi

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Website: <http://preeya.me>

Github: <https://github.com/ilovepjs>

CV: <http://preeya.me/cv.pdf>

Education	Imperial College London, Computing MEng	Sept 2012 - Present
Employment	Stripe - Security Team, Software Engineer	July 2015 - Oct 2015
	<ul style="list-style-type: none">- Audited the API auth and validation code, using Static Analysis techniques and some basic fuzzing.- Patched flaws discovered during the audit, and wrote up a report documenting my findings.- Wrote a framework used internally to allow arbitrary task execution in an audited, sandboxed environment.- Spun up a server to run tasks, added nagios checks and an abstract test suite for the framework	
	Stripe - Risk Team, Software Engineer	April 2015 - July 2015
	<ul style="list-style-type: none">- Carried out analysis on EU Fraud data using Amazon Redshift, and added fraud defences to Stripe's pipelines in Ruby- Helped build out general infrastructure for the Risk Analysts, as well joining the Risk Eng on-call rotation	
	Google, Software Engineer Intern	June 2014 - Oct 2014
	<ul style="list-style-type: none">- Worked on a team developing an advanced recommendation engine in Google TV Search.- Used the Glass GDK, Android SDK, GWT and Java to create a Google Glass and web front end.- I also created several backend components using Java, GWT RPC and internal file systems.- Gained experience in comprehensive functional and unit testing.	
	Selex ES, Software Engineer Intern	July 2013 - Oct 2013
	<ul style="list-style-type: none">- Created an augmented reality user interface to allow dynamic configuration of devices.- I reversed engineered ZBar, an open source C library, to recognise modified QR codes.- I implemented a Java backend to let devices broadcast their capabilities and interact through a zookeeper server node. This used Apache CXF distributed OSGI and the Apache Felix Framework.- Developed a responsive GTK GUI to augment a camera feed with device properties embedded in the QR codes	
	Imperial College London, Undergraduate Teaching Assistant	Sept 2014 - Present
	<ul style="list-style-type: none">- Personal Programming Tutor for 1st year undergraduate students teaching Haskell, Java and C.- I am responsible for taking tutorials and mark programming coursework.	
Projects	Explore Earth Visualisation, http://exploreearth.preeya.me	
	Visualisation from http://reddit.com/r/earthporn mapped on WebGLEarth. Built using Python and Django	
	Wittl, http://wittl.it	
Achievements	A realtime collaborative comparison site to compare "objects" on user preferences (wittls). The service takes a list of objects, applies 'wittls' to them and ranks them accordingly. Developed using Django and AngularJS it currently supports Airbnb, Auto-trader and Zoopla.	
	Clan Test, http://clan.preeya.me	
	The CLAN test is a military test designed to assess multi tasking skills. I created a game based upon it to, to allow applicants to practice and for others to give it a try.	
	<ul style="list-style-type: none">- American Express Scholarship Grant Recipient, Grace Hopper Conference 2015- Google Intern Grant Recipient, Grace Hopper Conference 2014- Twilio API Prize, Major League Hacking Launch Hack 2014- Queens Golden Jubilee Scholar, Grocer's Company 2012 - 2016- Imperial Scholarship Athlete 2012 - 2106- Taekwondo Sparring, Gold medal, BSTF Student Taekwondo Nationals 2014- 1st place Facebook UK Universities Hackathon 2013- 1st place UCL FindS Hackin' the City Hackathon 2013- UK finalist, National Science and Engineering Competition 2011	