CHRISANTHA J. PERERA

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EXPERIENCE

Castle Global June 2017 – December 2017

Backend Software Engineer *San Francisco, CA*

Worked on a team of 4 engineers building and improving Hive, a machine learning and data labeling product. Added new image, audio, and video labeling methods as well as metrics for evaluating moderators. Key functional components were RabbitMQ, asynchronous Javascript, postgres and Cassandra. Worked closely with Castle's data science team.

Oracle November 2014 – January 2016

Software/OS Engineer *Santa Clara, CA*

Updated sections of the legacy Solaris codebase on the Solaris Cryptography and Key Management team. Improved Solaris Compliance auditing of system security properties, working with configurable security policies and conforming to standards listed in SCAP. Led project to integrate Solaris Compliance with a dashboard product from Solaris Analytics, another Oracle group.

MIT Lincoln Laboratory September 2012 – December 2013

Research Assistant *Lexington, MA*

Designed and implemented security infrastructures pertaining to VM isolation and privilege separation. Cleared for Secret information and granted Collateral Secret access NACLC completed in Sept. 2012.

Oracle June 2012 – August 2012

Summer Intern *Redwood City, CA*

Developed a webapp project using the AGILE model as part of Oracle's Fusion Applications Platform Engineering Team. Conducted installation testing of Oracle Identity Management stack.

Other experience: Nanotech Research, Tutoring, Startup Experience, Volunteering

EDUCATION

Massachusetts Institute of Technology September 2008 – June 2012

B.S. in Electrical Engineering & Computer Science *Cambridge, MA*

Relevant Courses: Database Systems; Computer and Network Security; UI Design and Implementation; Computer System Engineering; Artificial Intelligence; Intro to Algorithms; Design and Analysis of Algorithms; Elements of Software Construction; Research in EECS

Overall GPA: 4.2/5.0 *additional coursework available*

TECHNOLOGIES AND LANGUAGES

Languages & Protocols	Javascript, Python, Java, HTML/css/js, XML, JSON, SCAP and OpenSCAP
Databases	PostGres, Cassandra, MySQL, SQLite, a little MongoDB
Tools & Misc	Vim, Bash, Flow, Mocha, jQuery, d3.js, Eclipse
Operating Systems	Solaris, Linux (Ubuntu and SciLinux, RHEL), Mac OS

PROJECTS AND PUBLICATIONS

Third author on joint paper published in Nano Letters, 2010:

Anomalously Large Reactivity of Single Graphene Layers and Edges

App Permissions, Isolation, and Sandboxing (Class Project in Computer Security)

Private Matching and University Admissions (Class Project in Computer and Network Security)

Security CTFs Reverse Engineering, Web and Binary Exploitation, and Mobile Technology (Android)