ROBIN SINGH

SOFTWARE ENGINEER

CONTACT

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LANGUAGES

C++
Java
C (89/99)
Golang
HTML
CSS
SQL
Python
Javascript
Bash/Shell

SKILLS

Object Oriented (OOP)
Networking
REST APIs
TCP/IP
Linux/FreeBSD
Android Studio
Web Development
Operating Systems
MySQL
Multi-Threading
Web2Py
Agile/Scrum
Git

REFERENCES

Available upon Request

EDUCATION

2013 - 2014

De Anza College
Bachelor of Science, major in Computer Science
GPA 3.72 / 4.0

2014 - 2016

University of California, Santa Cruz
Bachelor of Science, major in Computer Science
Honors in the major

EXPERIENCE

Virtual Gateway Labs   **May 2016 - Jul 2016**
Software Development Engineer
Implemented API and CLI interface for Virtual Broadband Gateway product.
Work included creation, implementation, and testing of API endpoints, as well
as CLI commands. Seamlessly integrate the API, CLI, and back-end code in
order to minimize code-redundancy. Test and improve existing back-end code
in order to maximize performance and robustness.

Datacare Corporation   **Jan 2016 - Mar 2016**
Software Engineer Intern
Responsible for creating an Android application to bypass the company
website, as well as implement a localized cache in order to minimize network
usage and improve speed and efficiency.

Baskin School of Engineering, UCSC   **Sep 2015 - Mar 2016**
Teaching Assistant - Computer Science Department
Guide students in their approach to assignments, as well as expand on in-class
lectures. Help forge assignments that complement in-class material as well as
promote understanding of key object oriented concepts.

OCZ Storage Solutions   **Jun 2015 - Sep 2015**
Systems Test Engineering - Intern
Collaborated with the automation team to write new scripts, as well as
improve the efficiency and robustness of previous scripts. Worked with the
Systems Test division to set up hosts, and run interoperability tests.

PROJECTS

CryptoFS
Build upon FreeBSD by adding another file system layer implementing
symmetric-key Cryptography using AES and SHA-1. Encryption was achieved by
adding new system calls, vnode encryption bits, and intercepting reads and
writes to disk and redirecting them.

Lottery Scheduler
Alter the Operating System's approach to assigning quantums to a process in a
multi-threaded environment. Move towards a ticket based randomized
approach, assigning tickets to each process, and scheduling in an irregular
manner to eliminate starvation while optimizing for performance.

Down
A social android application with event-based invitations, per-user databases
stored as arrays of data, user-database support with live logins, and inter-user
communication with unicast as well as multicast support.

SlugClasses
A database style site with server-side code written in python and mySQL.
Features a database of professors, classes, and reviews. Built using various
interconnected tables, to make sure all information is up to date.