Khalid Shakur

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EDUCATION

University of California, Berkeley   B.A. Computer Science, Spring 2017

EXPERIENCE

Software Engineer Intern - Facebook   **Starting May 2016**
Implementation Intern - Schoolzilla   **Sept.-Dec. 2015**
- Wrote SQL Stored Procedures to update the dates of data used in demo reports by the sales team. Tested, wrote documentation, and presented projects to the entire company.

Course Grader/Tutor - CS61B (Java, Algorithms & Data Structures)   **Jan. 2015-Present**
- Host two office hours and one discussion section of 5 students per week, grade coding assignments and tests, and organize review sessions for the three exams per semester.

PROJECTS

Duty Logger - Android app. to help UC Berkeley Residential & Student Service Programs residence hall staff log and report incidents. Allows users to design reports and create alarms for events relevant to job duties.

Plutus - Android and Wear budget app. targeting inexperienced American travelers. Fetches live currency rates allowing users to enter expenses, exchange currencies and get budget reports using Wear speech to text.

Firewall - Implemented in Python an active stateful application-layer firewall to enforce user specified TCP, DNS, HTTP, UDP and ICMP rules. The firewall injects RST packets upon denying TCP packets, injects DNS response packets redirecting to fixed IP addresses, and logs HTTP transactions.

File Compression - Wrote Java program that compresses and decompresses files using Huffman coding. Users can compress by individual characters or entire words and recursively compresses entire directories.

Processor Design - Implemented processer circuitry in Logisim to support the MIPS instruction set.

Personal Website - Built a personal portfolio using HTML, CSS, and PHP.

SKILLS

Proficient in: **Python, Java, C, HTML, CSS**
Experience in: **Android, SQL, MapReduce, PHP, MIPS, Framer.js, Scheme**

COURSEWORK

Advanced Algorithms and Intractable Problems	Android/Wear Design & Dev.
Artificial Intelligence	Databases
Discrete Math & Probability Theory	Machine Structures & Computer Architecture
Networking - Protocols and Architecture	Operating Systems

LEADERSHIP

Resident Assistant   **May 2015-Present**
- Create community by planning and hosting social events, encourage personal and academic development by acting as a resource and role model, and maintain the safety and well-being of students in the residence halls.