

# Khalid Shakur

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## EDUCATION

University of California, Berkeley

GPA: 3.3

B.S. Computer Science (CS)

Graduating: Fall 2016 (Early)

## RELEVANT COURSEWORK (includes Spring 2016)

CS160 (Android Design & Development), CS188 (Artificial Intelligence), CS168 (Networking - Protocols and Architecture), CS162 (Operating Systems), CS170 (Efficient Algorithms & Intractable Problems), CS186 (Databases), CS161 (Security), CS61C (C & MIPS), CS61B (Java & Data Structures), CS61A (Python & the Structure/Interpretation of Computer Programs), CS70 (Discrete Mathematics & Probability Theory)

## TECHNICAL SKILLS

Proficient in: **Python, Java, C, HTML, CSS, Android, Scheme, MIPS**

Experience in: **JavaScript, jQuery, PHP, SQL, JSON, Framer.js, Apache Spark & Hadoop**

## PROJECTS (code provided upon request)

**Duty Logger** (in progress) - Android app. for UC Berkeley Residential & Student Service Programs to help resident assistants and other security staff log and report incidents in the residence halls.

**Plutus** - Android budget app. w/ Wear companion app. targeting inexperienced American travelers. Allows users to enter expenses, exchange currency at current rates, and stay updated about their budgets.

**MIPS CPU** - Designed and implemented the logic of a CPU to support the MIPS instruction set using Logisim.

**Scheme Interpreter** - Python program that interprets Scheme expressions.

**Huffman Encoder** - Java lossless data compression program for encoding and decoding files and directories.

**Fifteen Puzzle Solver** - Program that strongly solves Fifteen puzzles iteratively through A\* search, implemented using Apache Spark's MapReduce model.

## EXPERIENCE & LEADERSHIP

**Software Engineer Intern - Schoolzilla, PBC**

**10/06-Present**

- Building a data upload tool supporting multiple file formats, to allow users seamless compilation of data from different sources into tailored reports.

**Web Developer - Berkeley Student Human Resources Association**

**08/15-Present**

- Communicate with the organization's leadership, and use their input to create, design, and maintain their website, their main attractor of new clients.

**Course Reader - CS61B (Java & Data Structures)**

**01/15-Present**

- Host office hours and small discussion sections for students requiring extra help, utilize and develop scripts to automatically grade coding assignments, and help create course material.

**Computer Science Mentor**

**01/15-Present**

- Pair with a few students a semester to provide individualized academic and social support for Computer Science prerequisite courses. Specific roles vary depending on students' needs.

**Resident Assistant**

**05/15-Present**

- Create community by hosting social events, encourage personal and academic development by acting as a student resource, and maintain the safety and well being of students.