

Zachary Yiu

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EDUCATION

UC BERKELEY

BA IN COMPUTER SCIENCE

Expected May 2019 | Berkeley, CA

College of Letters & Sciences

GPA: 3.38 / 4.0

COURSEWORK

UNDERGRADUATE

Structure and Interpretation of

Computer Programs

Data Structures and Programming

Methodology

Machine Structures

Discrete Mathematics and Probability

Efficient Algorithms and Intractable

Problems

Discovering Design

Web Design DeCal

iOS DeCal

PROJECTS

PICOYUNE ANDROID APP

Developed prototype Android application as primary interface to control mercury sensor remotely and provide live onscreen updates via parsed JSON data sent/received over Bluetooth

EDITOR

Developed text editor with cursor, word wrapping, newline, backspace, open and save, arrow key navigation, mouse input, window and text resizing, vertical scrolling, undo and redo, and text selection.

Implemented various data structures including an Iterable Linked List for character storage, Stack for undo/redo, and custom Node structure for text window rendering.

BEARMAPS

Used QuadTree data structure to create a maps application for rendering, rasterizing, and routing (Implementing A* algorithm for routing optimization) within the Berkeley area.

EXPERIENCE

PICOYUNE | SOFTWARE ENGINEERING INTERN

June 2017 - Present | Albany, CA

- Redesigned and implemented new GUI for flagship mercury sensor using Sketch and Python
- Develop Android application to interface with flagship sensor in Java using Android Studio IDE
- Develop bash shell scripts to automate build deployment to Linux-based SBC
- Maintain and develop sensor back-end operation with various hardware components in Python.

UC BERKELEY SAIT | UNIT SUPERVISOR

April 2017 - Present | Berkeley, CA

- Manage a team of seven consultants to provide technical support to university students as well as residents at University Village housing.
- Lead technical training workshop sessions for consultant staff.
- Manage and write technical documentation for internal Confluence page.

DIVERSATECH AT BERKELEY | JUNIOR TECHNOLOGY CONSULTANT

February 2017 - Present | Berkeley, CA

- Design and implement functional mobile chatbot service stack with client Smartex for agricultural use.
- Designed and developed pricing strategy for Chilean commercial real estate client Hitmap for integration into the San Francisco Bay Area market.

UC BERKELEY SAIT | STUDENT TECHNOLOGY CONSULTANT

April 2017 - Present | Berkeley, CA

- Operated in team of seven to diagnose and resolve a wide range of computer hardware, software, and network connectivity issues for university residents in-person, online, and over the phone.
- Maintained online ticket help queue using the ServiceNow online software service.

NOVANI | NETWORK ENGINEERING INTERN

Summer 2016 | San Francisco, CA

- Facilitated large scale deployment of Lenovo laptops for furniture distribution client
- Configured installed and imaged hardware for clients from vendors including HP, Lenovo, EMC, Brocade, Sonicwall, WatchGuard, Ruckus, and Meraki
- Provided both remote and in-person I.T. technical support and expertise for Windows and Mac users in a corporate environment.

SKILLS

LANGUAGES

Java, JavaScript, C, Python, HTML/CSS, Swift, Bash, RISC-V

TOOLS

Xcode, Android Studio, IntelliJ, Eclipse, PyCharm, Atom, Sublime Text, Vim, Sketch, Adobe CC, Figma,