

# Nathan Yuchi

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## EDUCATION

### UC BERKELEY

BA IN COMPUTER SCIENCE

Expected December 2018

### RIVER HILL HIGH SCHOOL

HIGH SCHOOL DIPLOMA

Graduated May 2015

## LINKS

Github:// [nathanyuchi](#)

LinkedIn:// [nathanyuchi](#)

Flickr:// [nathanyuchi](#)

[nathanyuchi.com](#)

## COURSEWORK

CS61A - The Structure and Interpretation of Computer Programs

CS61B - Data Structures

CS61C - Machine Structures

CS198 - Ruby on Rails DeCal

CS70 - Discrete Mathematics and Probability Theory

CS170 - Efficient Algorithms and Intractable Problems

CS184 - Computer Graphics and Imaging

CS186 - Introduction to Database Systems

CS188 - Introduction to Artificial Intelligence

## LANGUAGES

Proficient

• Java • Python

Familiar

• SQL • JavaScript • C

## EXPERIENCE

### AMAZON | SOFTWARE DEVELOPMENT ENGINEER INTERN

Summer 2018

- Connected workflow engine to visualization platform to create directed graph visualization of a proprietary workflow language
  - Allowed customers to debug, visualize, and understand their workflow
- Created custom graph and node data structures to represent workflow activities and features
- Used graph traversal algorithms and APIs to translate generated graph to visualization platform graph
- Implemented graph builder logic into language interpreter maintaining interpreter code runtime and readability

### LEIDOS (F500 DEFENCE COMPANY) | COLLEGE INTERN

Summer 2017

- Helped develop and design an internal e-commerce site using Javascript on Sharepoint
  - Previously, employees had to email spreadsheets to acquire assets or to request service
  - E-commerce site automated asset acquisition and approval process
- Improved user interface and user experience of Sharepoint intranet
  - Allowed managers to update sites without needing to edit code

### LOCKEED MARTIN | COLLEGE INTERN

Summer 2016

- Developed Sharepoint site for custom security audits using Javascript
  - Allowed security team to check the permissions of each subsite
- Created tools in VBA in Excel to check and track asset management data
  - Tracked changes in status of 60,000+ assets weekly
  - Synchronized asset data across multiple asset management platforms

## PROJECTS

### FACEBOOK GROUP NAVIGATION AND VISUALIZATION

Cal Hacks 4.0 | <https://devpost.com/software/live-cal>

Berkeley students often use Facebook groups to find housing. The problem with the Facebook group interface is that there is no way to search, sort, or filter postings. We used Javascript, HTML, and CSS and developed a web application that uses Facebook's graph API that allows a user to sort group postings by price and location. We also used Google Maps' API to map the location of housing listings so that users could visualize housing locations.

### TEXT EDITOR

- Built a text editor similar to Notepad from scratch
- Supported features such as keyboard input, mouse input, window resizing, word wrapping, scrolling, copy and pasting, saving and opening, and font styling
- Learned to modularize, code elegantly, and improve runtime in a larger project