

# JOHNNY HUANG

## Software Engineer

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## EDUCATION

University of California, Berkeley | Berkeley, CA

Expected December 2020

B.A. Computer Science

B.A. Data Science

B.A. Political Science

Extracurriculars: Delta Phi Epsilon - International Relations Fraternity

Coursework: Artificial Intelligence Databases Data Science Computer Architecture  
Operating Systems Algorithms Linear Algebra Discrete Math & Probability

## PROJECTS

CanvaSync - bit.ly/jh-filesync

June 2019

- Synchronises modules, assignments, and files from a Canvas course web server to local computer.

Python JSON OAuth HTTP Requests rclone

Relational Database - bit.ly/jh-database

January 2019 - May 2019

- Built a fully functional database that could perform simple and nested queries optimally.
- Implemented a SQL query optimizer, B+Tree file indexing, and join algorithms (PNLJ, BNLJ, Sort-Merge Join).

Java SQL Dynamic Programming Relational Algebra

Pintos Extensions

August 2018 - December 2018

- Expanded a uniprocessor Operating System to support thread pools, user programs, and virtual memory.
- Emphasis on proper design documentation, concurrency, debugging large systems, and memory management.

C OS

Bear Maps - bit.ly/jh-bearmaps

April 2018

- Developed backend of mapping application of Berkeley using images from OpenStreetMap.
- Supports shortest path routing (A\*) , zooming (Quadrees), and search w/ auto-complete (Trie trees).

Java Apache Maven IntelliJ

## SKILLS

Languages	Python, Java, C++, C, SQL, JavaScript, HTML/CSS
Frameworks/Libraries	Git, NumPy, pandas, jQuery, JUnit, PyTorch
Services/APIs	Docker, Maven, LaTeX, Jupyter

## EXPERIENCES

UC Berkeley EECS Department | Berkeley, CA

January 2019 - May 2019

Data 8 (Foundations of Data Science) Course Tutor

- Taught 30+ students fundamental computer science and statistics skills in small-group settings.
- Held office hours 2-3 hours/week to help students with any unanswered questions