

Arav Watwani

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EDUCATION

University of California, Berkeley

B.A. Computer Science

Expected May 2023

GPA: 3.65

EXPERIENCE

UC Berkeley, Department of EECS

Academic Intern

Berkeley, CA

Jan. 2021 – Present

- Assisted in group tutoring sections for students in CS 61A (Structure and Interpretation of Computer Programs)
- Answered conceptual questions and addressed bugs in students' programs during tutoring sections
- Improved students' understanding of programming fundamentals by delivering problem-solving tips and techniques

UC Berkeley, Haas School of Business

Undergraduate Researcher

Berkeley, CA

Sept. 2020 – Present

- Optimized lab's workflow by rewriting old Stata scripts to Python, enhancing data processing speeds exponentially
- Built data pipelines to streamline relevant regulatory comments from government documents with Pandas
- Efficiently managed the infrastructure side, allowing members to focus more on novel findings in political economy

SKUVision

Software Engineer Intern

San Diego, CA

Jul. 2020 – Aug. 2020

- Increased user security in SKUVision's inventory analytics SaaS platform by integrating Google's OAuth 2.0 API
- Enhanced future users' understanding of the product by building an MVP demo in Flask
- Made improvements in the front-end and user experience by providing design direction to the CEO

DoctorLingo

Front-End Developer

San Diego, CA

Jun. 2020 – Aug. 2020

- Increased website flexibility and compatibility across browsers by resolving UI errors in React components
- Created efficient workflow and version control within codebase by using Git

PROJECTS

COVID-19 Case Visualizer | *D3.js, HTML, jQuery*

github.com/aravwatwani/covid

- Built an interactive visualization of the COVID-19 pandemic to easily comprehend nationwide health situation
- Executed with D3.js to handle document manipulation and fetch daily data on case totals from New York Times
- Designed and implemented drag-force physics to create interactive bubbles for each state, enhancing user appeal

Kirby Finds the Cake | *Java*

Private Repository (Class Project)

- Implemented different pathfinding algorithms to find the shortest distance between 2 given characters in a text file
- Tested runtime complexity and efficiency by implementing different data structures (stacks, queues, hash tables)

League of Legends Skillshot | *Java*

github.com/aravwatwani/league

- Created a simplified 2D version of League of Legends to practice object-oriented design in Java
- Used Java Swing and Adobe Illustrator to design graphics, handle user controls, and manage character actions

HONORS

Recipient, National Merit Finalist, AP Scholar with Distinction, National Merit Corporate Scholarship, California State Seal of Biliteracy, CTE Information and Communication Technologies Award, Agilent Technologies Externship

SKILLS

Java, Python, JavaScript, HTML/CSS, SQL, Scheme (Lisp), React.js, NumPy, Pandas, D3.js