Arav Watwani

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EDUCATION

University of California, Berkeley	Berkeley, CA
B.A. Computer Science	***Graduation** May 2024*

EXPERIENCE

Gusto	San Francisco, CA
Software Engineering Intern (Incoming)	*May 2022 - Aug. 2022*

LPL Financial	San Diego, CA
Software Engineering Intern	*Jun. 2021 - Aug. 2021*

- Independently built an internal command line tool to generate error logs from over 2500 rows of LPL's cloud contact center data
- Streamlined unstructured cloud data from API calls into a configurable CSV output, saving 120+ hours of manual work yearly
- Deployed tool to 600+ unique admins to improve error detection, slashing throughput of flawed advisor data by 84%

UC Berkeley, Department of EECS	Berkeley, CA
Teaching Assistant	*Jan. 2021 – May 2021*

- Working to best assist roughly 2000 students by teaching weekly discussion sections in CS 61A, UC Berkeley's Intro. to CS course
- Answered conceptual questions on Python, Scheme, and SQL to help make students' introduction to CS more comfortable
- Improved students' understanding of programming fundamentals by delivering mini-lectures and problem-solving techniques

UC Berkeley, Haas School of Business	Berkeley, CA
Software Engineer, Research Assistant	*Sept. 2020 – May 2021*

- Built an error logging tool in Python to compare web-scraped data to manually found data by lab members, yielding 100% accuracy
- Refactored old Stata scripts written by researchers into Python, enhancing data processing speeds by over 20%

PROJECTS

SWE Daily Digest | *Twilio API, Python, Pandas, BeautifulSoup*	GitHub Repository ☑

- Created a bot that sends users notifications of new software engineering job postings, eliminating the need for repeated searches
- Leveraged Twilio's REST API for Python to SMS users, and BeautifulSoup to scrape 100+ rows web data on job postings online
- Parsed data into usable format with Pandas, and wrote a separate script to automate the main tool to send notifications daily

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

- Built an interactive visualization of the COVID-19 pandemic with D3.js, and fetched data on case totals from New York Times
- Designed and implemented drag-force physics to create interactive bubbles for each state, enhancing user appeal and interaction

GitReads | *React, JavaScript, Firebase, MongoDB*	Private Repository

- Designing a full-stack logging and note-taking system and for users to track reading history of their favorite novels
- Implemented user authentication with Firebase for additional security and built out front-end with React for UI flexibility

ACTIVITIES

Democratic Education at Cal, Teaching Assistant (Introduction to Algorithmic Thinking)	*Aug. 2021 - Present*
Open Computing Facility, Member	*Aug. 2021 - Present*
Helping Everyone via Arts, Co-Founder	*Oct. 2018 - Present*

SKILLS

Languages: Java, Python, HTML/CSS, SQL, JavaScript, Scheme

Tools: React, NumPy, Pandas, JUnit, Git, Unix, Flask