Arav Watwani

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Education

University of California, Berkeley — **Graduation** May 2023
B.A. Computer Science — GPA: 3.65

Experience

Gusto — San Francisco, CA
Software Engineering Intern — *May 2022*

- Summer 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

Gitlet | *Java* — Private Repository (Class Project)

- Designed a versioning system to replicate Git's core functionality, implementing branching, staging, merging, commits, etc.
- Wrote a breadth-first search algorithm to detect split points in commit history, allowing for correct branch merging

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: NumPy, Pandas, JUnit, Git, Unix, Docker, Flask, Node.js