Arav Watwani

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EDUCATION

University of California, Berkeley　　　　Expected Dec. 2023
B.A. Computer Science, Certificate in Design Innovation　　　　GPA: 3.65

EXPERIENCE

UC Berkeley, Haas School of Business　　　　Berkeley, CA
Undergraduate Researcher　　　　*Sept. 2020 – Present*
- Streamlined relevant regulatory comments from government documents by building data pipelines with Pandas
- Aided research in the Berkeley Political Economy Research Lab by applying data science techniques

SKUVision　　　　San Diego, CA
Software Engineer Intern　　　　*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　　　　San Diego, CA
Front-End Developer　　　　*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

Personal Website | *React, Node.js, GraphQL*
- Designed a personal portfolio and blog to showcase design endeavors, programming projects, creative writing
- Resulted in instant page loads and faster build and deploy times by building scalable APIs and data querying

Static Site Generator | *Python*
- Built a static site generator to increase website speed, build times, version control, and security
- Eliminates server-side interference and improves rendering times by creating HTML files from templates
- Converts Markdown files into rendered HTML using the Jinja2 templating language for Python

Kirby Finds the Cake | *Java*
- Developed a program that inputs a user-created text file of a map and uses a pathfinding algorithm to determine the shortest distance between a given character "Kirby" and the final destination "Cake"
- Worked with stacks, queues, and HashMap data structures to test memory, runtime complexity, and efficiency

Scheme Interpreter | *Python, Scheme (Lisp)*
- Wrote and developed an interpreter for a subset of the Scheme programming language in Python
- Learned how to address issues and implementation decisions that arise in the design of programming languages
- Better understood functional programming by applying concepts such as parsing expressions and specific data types

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

Languages: Java, Python, JavaScript, HTML/CSS, SQL, Scheme (Lisp)
Frameworks/Technologies: React.js, Node.js, Express.js, MongoDB, Flask, Django, Bootstrap, GraphQL
Libraries: Pandas, NumPy, Matplotlib, D3.js, Selenium, Bokeh