Pauline Tang

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EDUCATION

University of California, Berkeley   **Aug. 2020 - May 2024**
B.A., Computer Science   *Berkeley, CA*
- **GPA: 3.67/4.0** | Fiat Lux Scholarship recipient
- **Coursework:** Data Structures, Data Science, Discrete Mathematics, Computer Architecture, Operating Systems, Artificial Intelligence, Efficient Algorithms, Computer Security, Database Systems, User Interface Design and Development, Front-/Back-end Web Architecture

SKILLS

- **Languages/Frameworks:** Java, Python, Javascript, React, Go, HTML/CSS, C, Typescript, SQL, Next.js, Flask
- **Technologies:** Pandas, Regex, NumPy, MySQL, SQLAlchemy, MongoDB, JSP, Git, Linux, Docker

WORK EXPERIENCE

Tech For Good, Inc.   **May 2023 - Aug. 2023**
Software Engineer Intern   *Boston, MA (remote)*
- Collaborated on the development of an innovative open source tool aimed at reducing cloud computing costs by leveraging spot/preemptive instances and communication among AWS, Azure, and GCP.
- Built and debugged unit tests for an AWS cloud communicator, ensuring robust functionality and reliability.
- Worked closely with the team to explore the utilization of surplus cloud instances.

PROJECTS

TuneIn   **Jun. 2024 - Jul. 2024**
Next.js, React, Javascript, Spotify API
- Architected a dynamic web application that integrates the Spotify Web API, delivering comprehensive user listening analytics, including top tracks and top artists.
- Integrated a robust OAuth authorization mechanism to facilitate secure user login and seamless data retrieval from Spotify, ensuring enhanced user experience and data integrity.
- Engineered functionality for users to save their top tracks into personalized playlists directly within the application and export top stats as shareable PNG images.

FairShare   **Jan. 2024 - May 2024**
Next.js, React, Typescript, Google Maps API
- Built a carpooling web app prototype that connects drivers and passengers for efficient Bay Bridge commutes, reducing travel costs by optimizing carpool incentives.
- Incorporated the Google Maps API to facilitate seamless coordination between drivers and passengers, including destination-based matching and real-time estimated distance and arrival times.
- Implemented voice command functionality for drivers, allowing hands-free acceptance or rejection of passenger requests, enhancing both safety and user experience.

Planner   **Jul. 2023 - Oct. 2023**
Java, JSP, HTML/CSS, MySQL, JDBC, Apache Tomcat
- Developed a full-stack planner web app featuring user authentication and complete CRUD functionality, enabling users to efficiently manage their tasks through a visually pleasing and intuitive web interface.
- Employed the Jakarta Servlet API to manage the exchange of HTTP requests and responses between the client-side and server-side components.
- Established a robust data persistence layer by connecting the application to a MySQL database and efficiently managing task data through JDBC to execute database queries effectively in the backend.