Pauline Tang

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EDUCATION

University of California, Berkeley   Berkeley, CA
B.A. Computer science   *August 2020-present*
Fiat Lux Scholarship recipient   *(expected graduation date May 2024)*
Relevant Coursework: The Structure and Interpretation of Computer Programs, Data Structures, The Foundations of Data Science, Discrete Mathematics and Probability Theory, Computer Architecture (Machine Structures), Principles and Techniques of Data Science, Operating Systems and Systems Programming, Artificial Intelligence, *Efficient Algorithms and Intractable Problems*, *Computer Security* (*curr)

SKILLS

Languages: Java, Python, C, HTML/CSS, SQL, Assembly
Other Technical Skills: Pandas, Regex, NumPy, MySQL, JSP, Git, Linux, JDBC, Apache Tomcat

EXPERIENCE

Tech For Good, Inc.   Boston, Massachusetts (remote)
Software Engineer Intern   *May 2023-August 2023*
- 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.
- Worked closely with the team to explore the utilization of surplus cloud instances, and built and debugged unit tests for a AWS cloud communicator.

PROJECTS

Planner - *Java, JSP, HTML/ CSS, MySQL, JDBC, Jakarta Servlet API, 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.

Personal portfolio - *HTML, CSS, Javascript*
- Designed and built a responsive personal portfolio website using HTML, CSS, and JavaScript.
- Ensured optimal user experience across various devices through responsive design techniques.

Gitlet - *Java, SHA-1*
- Built a version-control system that supports 12 user commands to track and manage file changes.
- Utilized SHA-1 (Secure Hash 1) encryption of files and commits for content addressable storage.
- Serialized the internal structure of the system by designing classes that implement the Java Serializable interface.

EXTRACURRICULAR ACTIVITIES

Fiat Lux Scholars Association   Berkeley, CA
External Affairs Vice President   *May 2022-May 2023*
- Developed alumni and faculty relations between current scholars via consistent communication and connection events.
- Organized and hosted a virtual alumni panel featuring 4 accomplished alumni from software engineering, data engineering, and public health professional backgrounds.

Society of Women Engineers   Berkeley, CA
Outreach Committee: Mini University   *February-March 2022*
- Helped organize a day-long campus event for 60+ underrepresented, first-generation high school students interested in a career in STEM.
- Maintained contact with participating campus engineering organizations and faculty, constructed an efficient event program schedule, communicated internally with committee members and engaged in weekly meetings.