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Danica Tang

Software Engineer / Product Management

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EDUCATION

University of California, Berkeley, BA Computer Science May 2025
Courses: Data Structures, Efficient Algorithms and Intractable Problems, Principles and Techniques of Data Science, Computer Architecture, Discrete Math and Probability Theory, Linear Algebra

SKILLS

Languages	Java, Python, C, C++, JavaScript, HTML/CSS, SQL, Pandas, Swift
Front-End	HTML/CSS, JavaScript, React.js, UI/UX Design
Back-End	Express, Node.js, Flask, MySQL, MongoDB, APIs
Tools	Docker, Kubernetes, Grafana, Prometheus, Postman, Figma, Adobe Suite, Git

WORK EXPERIENCE

Software Development Intern January 2023 — May 2023

Typeless (Berkeley SkyDeck), Remote

- Designed and launched a micro-service that handles mp3 transcriptions for a messaging service. Configured a back-end, containerized stack for a Docker server that handles requests using Flask, Python, JavaScript, and Kubernetes. Set up metrics monitoring for the Kubernetes pods using Grafana and Prometheus.
- Collaborated with product design team to find product-market fit and improve user experience in Figma. Adapted desired front-end visuals into the back-end stack functionalities
- Conducted literature review on best practices in software development using containerization and wrote guides for future developers on setting up a back-end and monitoring performance

Tech Program Director / Co-President

December 2021 — August 2023

CS KickStart, Berkeley, CA

- Organized a week-long summer camp introducing 120+ female and non-binary UC Berkeley students to computer science
- Coordinated a team of 50+ volunteers, developed and taught a tech exploration curriculum, and delegated tasks for planned field trips to Meta, SAP, guest speakers, industry panels, and more
- Initiated a mentor program with 50+ participants and alumni reunion activities to assist women in navigating the tech industry

Mobile App Client Project Developer

January 2022 — May 2022

CozmicGo x Codeology, Berkeley, CA

- Refined 4+ functionalities for an iOS social media app, such as admin functions of banning a user, displaying a user's profile page, and listing mutual friends attending an event
- Adapted back-end functionalities to front-end code for the mobile app and tracked user feedback for the website

PROJECTS

Peer Rising AI, Co-Founder

Jan 2023 – Present

- Used lean start-up methodologies and product management skills to develop an education software service that fine-tuned an AI model for teachers to efficiently create customized lesson plans
- Launched and taught an AI focused tech summer program for 15 small-town high school students
- Designed starter code, unit tests, and project specs for 3 CS, web development, data science, and artificial intelligence projects
- 93% of students reported feeling more confident about their ability to succeed in CS and increased knowledge of AI after using our personalized curriculum

About Me Website

June 2023

- Implemented a full-stack personal website containing personal projects and art portfolio using HTML/CSS, JavaScript, React.js, Express, Node.js, and MongoDB. Designed UI/UX of the website through Figma.

Build Your Own World

December 2022

- Designed an adventure game from scratch in Java using a 2D array game board, with the theme of a robot saving Earth. Developed an engine to generate unique maps with randomized walls, rooms, and doors, a player object that can interact with different types of items in the world by pressing different keys, and enemies using search algorithms that try to catch the player.

Word History Visualizer

September 2022

- Created back-end implementation of a history of words web visualizer from scratch, mirroring Google's NGram Viewer
- Parsed word usage data from the Google NGram dataset, implemented depth-first search algorithm for efficient word look up, handled queries and displayed plotted data in visualization
- Built custom unit tests to test the functionalities of word and data storage in graphs and hash map data structures

ACTIVITIES, HONORS, INTERESTS

Activities	CS Kickstart, CS Scholar, Codeology, Society of Women Engineers, Association of Women in EE/CS
Honors	The Leadership Award by Cal Alumni Association(2.4%), EECS Department Grace Hopper Scholarship