Mei Zhang

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EDUCATION

California State University Stanislaus   August 2022 - December 2023
Bachelor of Science in Computer Science   Turlock, CA
Relevant Coursework: Software Engineering, Artificial Intelligence, Operating Systems, Data Structures & Algorithms, Fundamentals in Cybersecurity, Human-Centered Design, Ecommerce System Design.

Merced Community College   January 2020 - May 2022
Associate of Science for Transfer in Computer Science   Merced, CA

TECHNICAL SKILLS

Languages: Javascript/Typescript, SQL, Python, HTML/CSS, PHP, Java, C/C++
Technologies: React.js/React Native, Node.js, Express.js, Git, GCP, AWS, Apache Tomcat, JDBC

PROJECT EXPERIENCE

Pet Simulator App [Github]   December 2023 - January 2024
- Developed a web application to simulate pet ownership; leveraging **OOP** to develop simulation logic, **React.js** and **HTML/CSS** to build UI components, and **Node.js** and **MySQL** to manage session data.
- Increased application scalability by implementing a **3-tier database architecture**; allowing backend API to **pool SQL connections** and a modularization of client-side logic.

WordPress Ecommerce Platform [Github]   August 2023 - November 2023
- Migrated inventory management to a distributed DBMS (**US-West GCP** instance); implementing **Node.js HTTPs** module and **CORS** middleware to secure data, and **MySQL** module for data handling.
- Integrated frontend functionalities (e.g., catalog grids, add-to-cart); utilizing **HTML DOM** to update page elements with data prepared by parsing **JSON** responses.

Workflow Management App [Github]   January 2023 - May 2023
- Developed a Java web application to streamline workflow management by leading a full-stack development team through an **agile SDLC**.
- Established account system by designing account **database schema** and implementing the signup feature using **JDBC** to store account data into **MySQL** user tables.

WORK EXPERIENCE

Freelance App Development [Github]   December 2023 - Present
Full-Stack Developer   San Jose, CA
- Developed a web application for therapists to assess patient well-being by utilizing **React.js** to componentize various health care tools (e.g., forms, graphs, and treatment references).
- Improved account security by implementing **Node.js Argon2** module to encrypt (with robust hashing parameters) password upon account creation and verify password on login attempt.
- Developed a tool to visualize historical data between multiple assessments by archiving scores in user-specific **SQLite** tables, and using **HTML 2D Context object** to graph recent scores over time.

Kazlin Infinite Care LLC.   March 2022 - December 2022
RCFE Caregiver   Merced, CA
- Job Description: Prepare and pass medicine, refill prescriptions, and document medication intake.