Mei Zhang

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EDUCATION

California State University Stanislaus   Turlock, CA
Bachelor of Science in Computer Science   *Aug. 2022 – Dec. 2023*

Merced College   Merced, CA
Associate of Science in Computer Science   *Jan. 2020 – July. 2023*

EXPERIENCE

Freelance Software Development   San Francisco, CA
Full-Stack Developer   *December 2023 - Present*

- **Therapist Tools**: Developed a React application for therapists to assess patient well-being; providing various health care tools (e.g., forms, graphs, and treatment references).
- **Data Encryption**: Improved account security by implementing Node.js Argon2 encryption (with robust hashing parameters) to encrypt and verify passwords on signup/login attempt.
- **Data Visualization**: Designed a tool to visualize historical data, improving patient diagnosis, by plotting recent assessment scores over time and calculating data linear regression to show score trends.
- **Data Management**: Implemented assessment management tools by developing the UI and CRUD API to insert new assessment data and update pre-existing assessment information.
- **Recommendation System**: Integrated a recommendation system, streamlining therapist workflow, by developing an algorithm to pool lower ratings below a 50% threshold and returning a corresponding treatment.

Kazlin Infinite Care LLC.   Merced, CA
RCFE Caregiver   *Mar. 2022 - Dec. 2022*

- **Job Description**: Prepare and pass medicine, refill prescriptions, and document medication intake.

PROJECTS

Programming Copilot [Github]   *Mar. 2024 - Present*

- **Data Preparation**: Pre-processed HTML data from Github (MIT-licensed); tokenized to accomodate for Javascript syntax.
- **Model Development**: Designed LSTM architecture and hyperparameters with Keras, and evaluated training data by plotting RSME metrics with Matplotlib.

Distributed System [Github]   *Aug. 2023 - Dec. 2023*

- **API Server**: Migrated ecommerce inventory management to a distributed DBMS (hosted via GCP); implementing Node.js HTTPs module and CORS middleware to secure data, and MySQL module for data handling.
- **Data Distribution**: Integrated frontend functionalities (e.g., catalog grids, add-to-cart); utilizing HTML DOM to update page elements with data prepared by parsing JSON responses.

Task Automation [Github]   *Jun. 2022 - Nov. 2022*

- **Computer Vision**: Developed a desktop application to automate user-defined computer tasks by leveraging PyAutoGui to simulate keyboard inputs and mouse movements in response to dynamic object detection.
- **System Optimization**: Improved Keras TFOD API performance by constraining image input size to areas with high object detection rates.

PROGRAMMING SKILLS

- **Languages**: Javascript/Typescript, Python, SQL, C/C++, Java, HTML/CSS, Matlab
- **Technologies**: React, Node, REST, AWS, GCP, Git, TensorFlow/Keras