JONATHAN MACOCO

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TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, R, JavaScript, HTML5, CSS, Dart

Tools/Library's: Git, Docker, OpenMP, MPI, AWS, GCP, Flutter, TensorFlow, React

Database: SQLite, MongoDB, Firebase

Technologies/Frameworks: Linux, GitHub, Django, Tailwind, Bootstrap

Skills: Database Design, Full Stack App/Web Development, Agile Project Management, Problem Solving, Adaptability, Communication, Data manipulation, Quantitative Analysis, OOP

EXPERIENCE

Coinable   **Febuary 2024 – Present**

Full Stack Software Engineer Intern   Remote

- Assisted in development of the front and back end of a mobile application using Dart, Flutter, Node.js, and MongoDB
- Implemented email verification system utilizing Amazon Simple Email Service, ensuring reliable and secure communication within seconds for a seamless user authentication across a large platform
- Devised a RESTful API for efficient retrieval, storage, and updating of database records, ensuring streamlined data management and scalability
- Designed and Implemented user and categories collection using MongoDB resulting in efficient data management and organization
- Created and managed a reverse proxy server using NGINX to efficiently route HTTPS requests to backend MongoDB database, optimizing performance and security

Scale AI (Remotasks)   **May 2023 – Febuary 2024**

Computer Science Expert AI Training   Remote

- Proficiently trained machine learning models on how to code in python and C, resolving issues that occur during training
- Conduct thorough code evaluations for optimal efficiency
- Document and deliver clear explanations of the model output

PROJECTS

Stock Market Predictor website | *Django, Python, Tensorflow, Docker, HTML, Bootstrap, Git, GCP/Raspi-4*

- Designed and executed a full-stack web app allowing users to get predicted closing values of any given stock
- Users have the ability to sign up and create an account, allowing for the creation of a stock portfolio
- Utilized an LSTM neural network to create a model that gets the predict future stock prices based on previous stock trends
- Conducted a quantitative analysis on LSTM assessing the accuracy of the model using RSME

Movie Match | *React, JavaScript, Firebase, Git*

- Created a full-stack web chat app, employing an algorithm to match users according to their movie preferences
- Users can curate a personalized list of movies
- Based on the movies title and overall theme of a users movie list, they will be shown a list of users who's movie interest are similar

Plant Social | *Flutter, Dart, Python, TensorFlow, Firebase, Git*

- Collaborated as a key team member and scrum leader in creating and designing a social application
- Designed and applied the front end interface for a range of screens, seamlessly integrating Firebase functionality to efficiently manage and store user data
- This app allows users to capture images of plants and the app will identify the plant type

Factoring a Large Semi prime into its 2 Prime Factors | *C++, OpenMP*

- Parallelized the code using C++ with OpenMP, resulting in a 28% speed up
- Successfully tackled the complex task of factoring a large semi prime into its two prime factors

EDUCATION

San Jose State University   **Aug. 2024 – May 2026**

Masters of Science in Computer Science   *San Jose, California*

Chico State University   **Aug. 2018 – May 2023**

Bachelor of Science in Computer Science   *Chico, California*
                                                                                                        GPA: 3.287