JONATHAN MACOCO

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EDUCATION

Masters of Science, Computer Science   Aug 2024 - May 2026
San Jose State University, San Jose, California

Bachelor of Science, Computer Science   Aug 2018 - May 2023
Chico State University, Chico, California
- GPA: 3.3

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, R, JavaScript, HTML5, CSS, Dart
Tools/Technologies: Git, Linux, AWS, GCP, Flutter, React, Django, Docker, OpenMP, MPI, Tailwind, Bootstrap
Database: SQL, MongoDB, Firebase
Skills: Database Design, Agile Project Management, Problem Solving, Communication, Quantitative Analysis, OOP

EXPERIENCE

Full Stack Software Engineer, Coinable, Remote   Feb 2024 - Jun 2024
- Implemented email verification system utilizing Amazon Simple Email Service, resulting in 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, delivering streamlined data management and scalability
- Formulated and Implemented database architecture in MongoDB resulting in efficient data management and organization
- Built and managed a reverse proxy server using NGINX to efficiently route HTTPS requests to backend MongoDB database, optimizing performance and security

Computer Science Expert AI Training, Scale AI, Remote   May 2023 - Feb 2024
- Trained machine learning models how to code in python and C, resolving issues occur during training
- Conducted thorough code evaluations for machine learning models, increasing efficiency
- Documented and delivered clear explanations of model output, resulting in model improvement

PROJECT EXPERIENCE

Stock Market Predictor website
- Designed and executed a full-stack web app to predict closing stock values, aiding users with investment strategies
- Engineered a model utilizing an LSTM neural network, providing future stock prices based on stock trends
- Conducted quantitative analysis on model, evaluating performance utilizing RMSE, assisting in error reduction
- Integrated portfolio analysis comparing user portfolio to projected portfolio values, helping optimize investment strategies

Movie Match
- Devised a full-stack web chat app, employing an algorithm allowing users to be matched according to movie preferences
- Incorporated Firebase to securely store user and movie data, creating reliable accessibility and robust data management
- Integrated TMDB API to dynamically fetch, ensuring users get latest movie data

Plant Social
- Lead collaboration as a scrum leader in creating and building a social application
- Designed intuitive front end interfaces integrating Firebase functionality to efficiently retrieve, manage and store user data
- Developed camera functionality, sending data to MobileNetV3Small machine learning model used to classify plant images

Factoring a Large Semi prime into its 2 Prime Factors
- Parallelized code leveraging C++ with OpenMP, resulting in a 28% speed up
- Tackled complex task of factoring a large semi prime into its two prime factors