Jonathan Macoco

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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: SQLite, MongoDB, Firebase
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
- Developed front and back end of a mobile application using Dart, Flutter, Node.js, AWS, and MongoDB
- 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
- Designed and Implemented database architecture in 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
- Trained machine learning models on how to code in python and C, resolving issues that occur during training
- Conducted thorough code evaluations for optimal efficiency
- Documented and delivered 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
- Engineered a model utilizing an LSTM neural network, that provides future stock prices base on stock trends
- Conducted a quantitative analysis on LSTM model, assessing the accuracy using RSME
- Integrated portfolio analysis comparing user portfolio to projected portfolio values, helping optimize investment strategies

Movie Match | *React, JavaScript, Firebase, Git*
- Created a full-stack web chat app, employing an algorithm to match users according to their movie preferences
- Incorporated Firebase to securely store user and movie data, creating reliable accessibility and robust data management
- Integrated TMDB API to dynamically fetch and present the latest movie data

Plant Social | *Flutter, Dart, Python, TensorFlow, Firebase, Git*
- Lead collaboration as a scrum leader in creating and designing a social application
- Designed intuitive front end interfaces integrating Firebase functionality to efficiently retrieve, manage and store user data
- Created camera functionality, sending data to MobileNetV3Small model used to classify plant images

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: 3.3