# Jonathan Macoco

(510)-828-3291 · jtmacoco.com · jtmacoco@gmail.com · linkedin.com/in/jonathan-macoco

## Technical Skills

- Programming Languages: C, C++, Java, Python, R, MySQL, Javascript, HTML5, CSS, Dart
- Tools: Git, Docker, Django, React, OpenMP, MPI, AWS, GCP, Flutter, Tensorflow, Scikit-learn
- Skills: Database Design, Full Stack Web Development, Agile Project Management, Problem Solving, Adaptability, Communication, Software Development, Quantitative Analysis, OOP

## Projects

**Movie Match** https://project-moviematch.com
- Developed and designed a full-stack web application using React, Javascript, Tailwind, Git, and Firebase. This application allows users to curate their own personalized movie list, and based on that movie list, they will be displayed to other users whom they can chat with.

**Stock Market Predictor website** https://stock-predictor.com/
- Designed and implemented a full-stack web application with Django, Python, Tensorflow, Docker, HTML,Bootstrap, Git, and GCP. This application predicts stock closing prices, allows users to create accounts, and enables personalized portfolios for tracking performance and comparison.

**Plant Social**
- Collaborated as a key team member and scrum master in creating and designing a social application utilizing Flutter, Dart, Google Firebase, and Tensorflow. This platform allows users to create an account and share images and information pertaining to plants. Users also have the capability to capture images of plants and identify the plant type.

**Factoring a Large Semiprime into its 2 Prime Factors**
- Parallelized code using C++ and OpenMP and achieved a 28% speed up in finding the two prime factors that make up a large semiprime.

**Convolutional Neural Network**
- Developed the forward step of a backpropagation algorithm for a convolutional neural network, implemented entirely in C++.

## Experience

**Scale AI (Remotasks)**, Remote — computer science expert AI training (May 2023-Present).
- Conducted thorough code evaluations for optimal efficiency
- Proficiently trained machine learning models
- Created comprehensive documentation and delivered explanations of model outputs

**Amazon**, San Leandro, CA — Warehouse Worker (May 2021-August2021)
- Managed order processing and skillfully packed products following established protocols
- Maintained good communication and self-awareness to ensure the safety of self and coworkers

## Education

| | |
|---|---|
| California State University, Chico | Aug. 2018 –May. 2023 |
| Bachelor of Science in Computer Science | GPA: 3.287 |

## Awards

**Dean's Honor List**

Recognized for performance in classes and attaining an above 3.5 GPA for the semester's Fall 2018, Fall 2021, and Spring 2022

**ACM:** ICPC Competitor Spring 2022