Marc Chew

1234 Stanford Drive, Palo Alto, CA 94305
(650) 555-1234 | marc.chew@email.com | linkedin.com/in/marc-chew | github.com/marc-chew

1 Education

Stanford University, Palo Alto, CA September 2020 – June 2024
Bachelor of Science in Computer Science, GPA: 3.85/4.0
Relevant Coursework: Algorithms, Data Structures, Artificial Intelligence, Machine Learning, Operating Systems, Computer Networks, Software Engineering

2 Experience

Software Engineering Intern, Google, Mountain View, CA Summer 2023

- Developed a scalable microservice for real-time data processing using Go and Kubernetes, improving data throughput by 30%.
- Collaborated with a team of 5 engineers to optimize search indexing algorithms, reducing latency by 15%.
- Contributed to internal tools for monitoring system performance, used by 100+ engineers.

Research Assistant, Stanford AI Lab, Palo Alto, CA January 2022 – May 2023

- Designed and implemented a novel deep learning model for image classification, achieving 92% accuracy on benchmark datasets.
- Co-authored a paper presented at NeurIPS 2023, focusing on efficient neural network architectures.
- Built data pipelines using Python and TensorFlow to preprocess large-scale datasets.

3 Projects

Personal Finance App GitHub: github.com/marc-chew/finance-app

- Developed a full-stack web application using React, Node.js, and MongoDB to help users track expenses and set budgets.
- Implemented secure user authentication with JWT and deployed the app on AWS, serving 500+ active users.
- Integrated third-party APIs for real-time stock market data visualization.

Autonomous Drone Navigation System Stanford Senior Capstone Project

- Engineered a ROS-based system for autonomous drone navigation using computer vision and reinforcement learning.
- Optimized path-planning algorithms, reducing navigation errors by 25% in simulated environments.
- Presented project to a panel of faculty and industry experts, receiving top honors.

Open-Source Machine Learning Library GitHub: github.com/marc-chew/ml-lib

- Created a Python library for machine learning algorithms, including decision trees and neural networks.
- Wrote comprehensive documentation and unit tests, achieving 95% code coverage.
- Gained 200+ stars on GitHub and contributions from 10+ developers.

4 Skills

- **Programming Languages**: Python, Java, C++, JavaScript, Go
- **Frameworks & Tools**: React, Node.js, TensorFlow, PyTorch, Kubernetes, AWS, Git
- **Concepts**: Algorithms, Data Structures, Machine Learning, System Design, Databases

5 Activities

- President, Stanford Computer Science Club, 2022–2024
- Volunteer Mentor, CodePath, teaching introductory programming to 50+ high school students, 2021–2023
- Participant, ACM International Collegiate Programming Contest, 2022