

Max Fung

Software engineer with 3 YOE based in Los Angeles, California, USA
focused on crafting intuitive, complex, user-focused products

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Relevant Experience

Software Engineer · Freelance Nov 2023 — Present

- Collaborating with early-stage and pre-seed startups to develop full-stack web applications.

Software Development Engineer · Flexe Feb 2022 — Nov 2023

- Delivered high-quality, robust production code across the entire stack for Flexe's proprietary warehouse management system serving a diverse array of large enterprise clients
- Worked on feature development, maintenance, and debugging for Kotlin microservices, a Rails application, a React/TypeScript client application, and an Android app.
- Led the design and deployment of reusable mobile front end components that significantly streamlined workflows and could be seamlessly integrated across multiple applications, utilized by several product teams
- Architected and deployed a refactored Android application to separate out legacy code, optimizing for resource management, code scalability, and test coverage, resulting in the expedited deployment of several customer-facing projects
- Contributed to the decomposition of a monolithic Ruby on Rails application to a modern Kotlin microservices architecture, improving system scalability and performance
- Designed, developed, and shipped a scanner lookup feature with back-end APIs and improved user interfaces to increase visibility to warehouse tasks, reducing user input errors by 70%
- Built scalable fulfillment solutions that provided numerous improvements to freight and parcel shipping, including a dynamic, mixed input scanning system that accepts several different inventory types, aligning software architecture with business goals
- Contributed to company-wide documentation initiatives including developer onboarding and mobile best practices

Software Engineer · Boeing Nov 2020 — Feb 2022

- Developed, shipped, and maintained internal production tracking software using Python and Excel, providing project managers with comprehensive data for materials, orders, and production activities
- Extended existing manufacturing execution system with user-friendly front end and back end integration of numerous disconnected data sources to increase awareness of production bottlenecks
- Increased the department's visibility to track materials and products through the entire supply chain, creating meaningful efficiency statistics to improve processes, and reducing overhead costs by around \$5,000, per project, per week
- Set and met 90% of goal deadlines, and worked across electronics, quality, and executive teams to ensure project was delivering requirements

Software Engineer Intern · Aerojet Rocketdyne July 2019 — Aug 2019

- Built an automated testing suite for laboratory measurement device calibration
- Collaborated with metrology engineers, lab technicians, and other domain experts to migrate legacy calibration test code written in BASIC from a dying HP85 computer
- Deployed modernized automated test suite written in Python utilizing PyQt in a compiled desktop application with graphical user interface

Skills

Programming Languages

Python, Kotlin, JavaScript, TypeScript, Ruby

Libraries & Frameworks

React, Next.js, Android, Ruby on Rails, GraphQL, Flask, Ktor, Framer Motion, HTML, CSS

Tools & Platforms

Git, GitHub, GitLab, Vercel, Heroku, Docker, Webpack, Google Cloud Platform, Supabase

Professional

Project management, critical thinking, product sense, communication, problem solving, leadership, creativity, attention to detail

Selected Projects

Drumhaus

Drumhaus is a browser controlled rhythmic groove machine built with Tone.js and Next.js. Explore web based drum sampling with limitless creativity, and share it all with your friends.

Maxfung.net

Personal website built with Next.js

Education

Loyola Marymount University

Bachelor of Science in Mechanical Engineering, Concentration in Aerospace Engineering

Interests

Music production, surfing, snowboarding, film photography, graphic design, biology, history, vintage fashion