Matthew Chan

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SENIOR FULL STACK ENGINEER

Full stack software engineer with 7 years of experience emphasizing technical leadership, project management and driving projects to completion. Domain expert in SaaS billing and payments as a result of founding a revenue analytics product and architecting billing systems at B2B startup. Led 9 projects and mentored over 10 engineers at 3 companies.

SKILLS

Programming Languages: JavaScript, TypeScript, Python, PostgreSQL, SQL, HTML, CSS
Technologies: Docker, Kubernetes, Node.js, Next.js, Express.js, React, React Native, Redis, Husky, Vue.js
Cloud Platforms, Tools & APIs: Amazon Web Services, Heroku, Vercel, Fly.io, Sentry, Datadog, Grafana, Github Actions, Microsoft Azure, Travis CI, Stripe, Intercom, Google APIs, Auth0, Dropbox, Okta, Mapbox Autodesk Forge

WORK EXPERIENCE

Senior Full Stack Engineer, Seam (Y Combinator B2B startup) | Remote   Mar 2023 - Present
- Full stack and lead billing engineer for IoT API startup serving 60,000+ devices across 10,000+ accounts
- Spearheaded enterprise billing restructure, working cross-functionally with sales team and CEO to create billing management module service and introduce new billing flow with prepayment options. Devised optimal pricing plans based on customer usage and managed 2 engineers on project (PostgreSQL, Redis, Stripe, Github Actions)
- Architected end-to-end user experience for self-serve billing, integrating Intercom chat API with Stripe to identify target users and enable automated revenue collection based on usage metrics. Resulted in 40% conversion rate for self-serve users (PostgreSQL, Next.js, React, TypeScript, Stripe, Intercom APIs)
- Solved high-volume account deletion failures, reducing related customer tickets by 80% by optimizing database query performance for tables with 50+ million rows (PostgreSQL)
- Developed end-to-end mobile application allowing for authentication and usage of Seam API, broadening product accessibility to mobile devices for priority enterprise customer (React Native, PostgreSQL, Next.js)
- Reverse engineered multi-device asynchronous hardware APIs for smartlocks (Kwikset, Wyze) to support 2,000+ live customer devices and 300+ accounts. Dealt with challenges such as decrypting buffer payloads, HTTP request interception, reverse engineering undocumented APIs and IoT issues (TypeScript, PostgreSQL, Node.js, Next.js)

Senior Software Engineer, Credit Union National Association | Remote   Jan 2021 – Mar 2023
- Drove end-to-end development of web applications to launch flagship digital product providing Credit Union services to 1,000+ consumers in cross-functional Agile environment (Node, Express, React, TypeScript, MSSQL, Azure)
- Designated as team's Tech Lead for one month during leadership absence. Enabled continued team productivity by planning sprints with product managers and assisting 6 engineers on top of individual feature delivery
- Played leading role in architecture decisions and development of modular digital products for Credit Union consumers, including digital applications for Savings, Checking and Money Market accounts
- Created 2 internal database management automation tools as a solo contributor, resulting in time savings of 4 hours per sprint for 3 teams of engineers (TypeScript, MSSQL, Object-Oriented Programming)

Co-Founder & Fullstack Engineer, ProfitKit   Dec 2019 – Jan 2021
- Co-founded revenue analytics SaaS for Stripe, saving users $300,000+ in recovered delinquent revenue and automating 10,000+ subscription lifecycle emails. Responsibilities included fullstack engineering, project management, marketing, customer research, support and application deployment (AWS, Github Actions, Docker)
- Processed extensive datasets comprising 30,000+ units and established methods for efficiently loading, caching and analyzing user recurring revenue data retrieved from Stripe (Redis, Node, Express, React, PostgreSQL, Stripe APIs)

Fullstack Engineer, Perkins & Will (Architecture Firm) | Chicago & Remote   Nov 2018 – Jan 2021
- Built 6 fullstack applications in a cross-functional environment, working with engineers, stakeholders and designers to launch products, internal tools and demonstrations to C-level executives

- Developed a 3D mapping and architectural design tool, [Massformer](), used by 100+ internal architects to generate building plans. Engineered 8 core features as lead developer, including integration with building modeling software Revit (Node, Express, React, TypeScript, PostgreSQL, AWS, Okta, C#, Mapbox, GIS)
- Designated as lead engineer for 4 projects and trained 2 developers to use React, enhancing overall team capacity

Freelance Software Engineer   **Jan 2017 – Nov 2018**
- Completed a variety of software engineering projects for clients including entrepreneurs, a Series A startup, day traders and personal trainers
- Built mobile application with 21 screens worth $15,000 in revenue for client as solo engineer, allowing technical founders of [Draftbit]() to focus on engineering their long-term product (React Native, Airtable API)
- Founded agency providing algorithm development services to day traders, delivering a range of solutions to 17 clients including chart indicators, live trading algorithms, backtest results, scripts to analyze stock price data and a [Forex indicator with 500+ downloads]() (C#, Python, MQL5)
- Collaborated with trader over 9-month period to deliver algorithm capable of detecting price patterns and trading signals for 10-15 stocks concurrently, offering analyses on anticipated P/L, Win/Loss ratio, and optimal signal parameters for a trading account exceeding $100,000 in value (C#)
- Developed 4 fullstack web applications including a student-teacher rewards system for 100 students (Python, Django, HTML, CSS) and weightlifting program SaaS with over 50 active users (Node, Express, React, PostgreSQL)

EDUCATION & QUALIFICATIONS

[Fullstack Academy]() (Software Engineering Bootcamp)   **May 2018**

Statistics, University of Chicago   **Jun 2017**