Harrison Miller

Senior Full-Stack Engineer | API Design & Developer Experience

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Senior full-stack engineer with 7+ years building scalable APIs and developer tools at SpaceX, Google, and startups. Specialized in API design, developer experience, and data infrastructure. Reduced API execution times 40% at Bond, built production APIs for SpaceX Dragon 2, managed data pipelines serving 1B+ users at Google.

Professional Experience

API & Systems Design Consultant | A-Team | Remote
May 2023–Present

- Provide part-time consulting on API design, developer experience, and full-stack architecture for early-stage startups
- Design RESTful API architectures with focus on developer experience: clear endpoint naming, versioning strategies, comprehensive documentation
- Build CI/CD pipelines and Docker-based development environments enabling rapid iteration and deployment
- Advise on system architecture decisions for scalable data infrastructure and microservices patterns

Software Engineer | Bond | Remote
Jul 2022–Apr 2023

- Reduced API sync execution time by 40% through query optimization and schema improvements, directly improving developer experience for partners integrating with Bond's financial APIs
- Built secure financial data pipeline for credit bureau integrations (Experian, TransUnion, Equifax) serving underbanked users building credit history
- Created internal analytics dashboards translating complex financial data into actionable insights for Operations team
- Wrote comprehensive API documentation and integration guides to streamline partner onboarding and reduce support requests

Partner Technology Manager, YouTube | Google | Remote
Jan 2021–Mar 2022

- Managed technical partnerships for YouTube's $1B Film & TV vertical, serving as technical liaison between media partners (Disney, Netflix, ViacomCBS) and YouTube engineering teams
- Built and maintained data pipelines using BigQuery processing billions of video interactions monthly to analyze content performance across paid vs. organic and global viewership
- Created self-serve analytics dashboards that reduced partner reporting time by 50%, providing actionable insights on content monetization and discoverability
- Translated complex partner requirements into technical specifications for engineering teams, ensuring seamless API integrations and troubleshooting technical issues

Co-Founder | IvyBridge International Education | San Francisco, CA
Jun 2018–Feb 2023

- Co-founded edtech SaaS platform and built entire technical stack from 0 to 1, scaling to $230K+ annual revenue with 5x user growth
- Architected full-stack platform using Node.js/AWS backend and React/Redux frontend, integrating multiple third-party APIs (Airtable, Calendly, Cloudinary)
- Generated $100K+ revenue within first 90 days by building B2B2C marketplace connecting international students with Ivy League advisors
- Managed complete development lifecycle including CI/CD pipelines, testing frameworks, deployment infrastructure, and technical documentation - Built data analytics dashboards for B2B clients, increasing user retention by 40% through actionable insights

Software Engineer | SpaceX | Hawthorne, CA

Nov 2017–Jun 2018

- Built production APIs using .NET (C#) and Entity Framework for Dragon 2 Crew capsule manufacturing operations, serving engineering teams across multiple facilities
- Improved API response times by 30% through LINQ query optimization, enhancing real-time data access for mission-critical aerospace applications
- Maintained 99.9% uptime for internal ERP systems during Falcon Heavy launch operations through fault-tolerant design and comprehensive monitoring
- Redesigned Mission Reuse application interface, reducing user errors by 30% and improving part lifecycle tracking for reusable rocket components

Education

Yale University | Bachelor of Arts in Psychology | New Haven, CT

2017

Computer Science Coursework: Data Structures & Programming Techniques, Algorithm Design & Analysis, Human-Computer Interaction, Statistics, Calculus

Thesis: "Humor Evaluations in Human-Computer Interactions with Chatbots"

Core Competencies

- **Languages:** Python, JavaScript/TypeScript, C#, SQL, Node.js

- **Backend & APIs:** FastAPI, Django, .NET/Entity Framework, RESTful API Design, GraphQL

- **Frontend:** React, Redux, Next.js, TypeScript

- **Data & Infrastructure:** PostgreSQL, BigQuery, Redis, AWS, GCP, Docker, Kubernetes

- **Developer Tools:** Git, CI/CD, Testing Frameworks, API Documentation, Technical Writing