

Pratik Patel

CTO | Hands-On Engineering Leader | Prev Co-founder

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Ambitious Software Engineer with consistent success within dynamic startup environments and AWS. Proven ability to design extensible and scalable solutions that tackle known issues and adapt for future needs. Skilled in working autonomously and navigating ambiguity with a consistent track record of delivering software with diverse teams and tech stacks. Effective communicator and mentor able to force-multiply productivity and work through peers, mentees, and engineers.

WORK EXPERIENCE

2023 - Current

Chief Technology Officer at eddii 📍 Remote

As CTO of eddii, I lead the technological vision and execution to revolutionize diabetes management through innovative digital solutions. By leveraging cutting-edge technology and fostering a culture of creativity, we're developing powerful tools that significantly improve the lives of individuals with diabetes. My role involves strategic planning, hands-on development, and scaling our platform to meet rapidly growing demand.

- Designed and built the entire backend and frontend mobile application, creating a comprehensive ecosystem for diabetes management
- Scaled the platform to 50,000 users in under a year, demonstrating rapid growth and market validation
- Implemented machine learning algorithms and integrated AI/LLM technologies to provide personalized insights and recommendations for users through an intelligent chatbot interface
- Established robust data security protocols to ensure HIPAA compliance and protect sensitive user health information
- Fostered partnerships with healthcare providers and insurers to integrate eddii into existing care systems

2022 - 2023

Senior Software Engineer II at Dapper Labs 📍 Remote

Joined Dapper Labs as an acquihire (see Zay Codes below) and assigned to a team within Developer Experience tasked with accelerating growth of the Flow Blockchain, driving partnerships with top-tier IP owners/companies, and building and iterating developer tools and products to improve the Flow ecosystem.

- Collaborated with team members in a highly autonomous environment with responsibility for decision making on projects to execute, creating roadmaps and objectives, setting priorities, and managing deliverables.
- Developed an "NFT Catalog" which provides interoperability of NFT Collections across different applications in the ecosystem and provides developers a simple self-service for onboarding their collections to a "NFT API" without writing custom code, submitting PRs, or waiting for code deployments.
- Independently developed the concept and built Flow Runner, a web-based tool to run Cadence scripts and transactions directly from a browser without the need for client software or configuration. The tool was built with the intent of additional funding from Dapper for full productization.
- Wrote API currently used by Instagram to fetch, list, and display NFTs on the app.
- Provided subject matter expertise on smart contract review across the company.
- Mentored junior engineers and contributed to career development.

2021 - 2022

Co-Founder at Zay Codes 📍 Remote

Co-founded company and built out a development team of up to 15 members comprised mostly of contractors, with primary focus on CTO-type responsibilities related to technical direction, vision, and client work.

- Secured contracts with five clients to build unique applications on the Flow Blockchain, with responsibility for customer requirements, back-end design, UX, UI mocks and builds, writing smart contracts, and deploying applications to production.
- Participated in a Flow Hackathon, earning ~\$100k in prize money based on completing tasks and creating products that aided the open-source developer ecosystem.
- Managed company's financials and led negotiations/legal aspects of acquisition/acquihire by Dapper Labs, with intent to leverage the Zay Codes team's expertise in Flow Blockchain and Cadence smart contracts.

2019 - 2022

Senior Software Development Engineer at Amazon Web Services Herndon, VA USA

Promoted to leadership within a newly-formed Proactive Security organization. Recruited/hired, mentored, set vision, and led engineering work for an organization of 4 teams and ~30 engineers. Identified technical products/projects to automate a manual, labor-intensive security release process at AWS.

- Security Platform in the Application Development Lifecycle - Led technical direction of a large automation effort designed to reduce manual toil in a months-long Security Review process required for all AWS services before launch, with a goal of enabling continued AWS growth. Designed and implemented a platform to inject the security review process in the SDLC using Java, Python, and AWS, providing developers with necessary security guidance during design, development, and release.
- Security Testing Framework - Designed and implemented a framework in Java and Python that leveraged fuzzing and generated security tests based on a service's API model, and ran predefined security tests. This service is now used to cover all ~15,000 of AWS's public APIs.

2015 - 2019

Senior Software Development Engineer at Amazon Web Services Herndon, VA USA

Hired in a hands-on role and took on leadership of technical efforts for business-critical systems including high-traffic, high-TPS distributed systems with fault-tolerant design built for high scalability and reliability. Contributed to building an engineering organization from 10 members/3 teams to 100+ members/20+ teams, and mentored talent.

- Internal Web-based SSH Client - Designed and implemented a web-based SSH client in JavaScript, Node.js, and React used to authorize a one-click MFA-session to internal remote hosts. The service was created during off-hours and became a fully-funded tool launched to production and adopted by ~15K daily users. The tool was presented at two internal engineering conferences and received an average CSAT score of 4.4/5.
- Internal Account Management Service - Served as Tech Lead/SME for build of an internal web application and API service developed in Java, JavaScript, Ruby on Rails, and MySQL that is used to manage, access, and audit all internal AWS accounts, with the service becoming the de facto method for AWS employees to access and operate within their AWS accounts (~300 TPS, ~50K daily users). Led redesign of the backend architecture to ensure high availability and redundancy, and led feature design to guard/audit access to "production" AWS accounts.
- Internal SSO Authentication Platform - Contributed to development of a solution that provides 2FA access to internal resources. Led design and implementation of the platform's control plane which became the primary source for Amazon employees to authenticate internal resources, built to handle MFA token registration for >400K users.
- Internal Operator Authorization Service - Designed and implemented a service in Java, JS, Node.js, and React that enables engineers to have their changes reviewed and approved by a peer, designed for use as a building block service in efforts to add safety and validation around production changes in AWS. Independently built the project's website, REST service, and database, and handled onboarding of a new team during transfer to a new organization.

SKILLS

Distributed Systems Design, Service-Oriented Architecture, Event-Driven Architecture, AWS, Google Cloud Platform, Blockchain and Decentralized App Development (Flow, Ethereum), Java, JavaScript, Node.js, React, NextJS, Ruby on Rails, Bash/Shell, C++, C, Python, Ruby, Go, HTML/CSS, Machine Learning, Deep Learning, Natural Language Processing, AI Model Deployment, LLM

EDUCATION

2010 - 2014

Master's Dual Major Computer Science & Computer Engineering at Rensselaer Polytechnic Institute Troy, NY USA

Grade: 3.8

- Dean's List, Worldwide Computing Laboratory Research Group Member, RPI Medalist
- Master's Thesis: Speeding Up and Augmenting Mobile Device Applications using Actors and Cloud Computing

PROJECT AND PUBLICATIONS

2016

 [Encyclopedia of Cloud Computing: Chapter 50: Developing Elastic Software for the Cloud](#) in Wiley-IEEE Press

2020

 [Keyboard Part Picker](#)

2022

 [Flow Runner](#)

2022

 [Flow Sight](#)