Allison Colyer - Senior Software Engineer

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SKILLS
Programming Languages: Dart, Java, Ruby, JavaScript/TypeScript, Python, HTML5, CSS/Sass
Frameworks & Libraries: Nest.js, Node.js, Rails, React, React Native, Flutter, GraphQL, Yarn, Nx, Jest
Cloud & DevOps: AWS (SQS, Lambda, ECS, EventBridge, DynamoDB, S3, Parameter Store, SES, CodeDeploy), Docker, Terraform, PostgreSQL, Datadog (APM, RUM), Git/GitHub/GitLab, GitHub Actions, LaunchDarkly

EXPERIENCE
Sweetgreen | Senior Software Engineer | November 2023 - present
• Directed migration of push notifications + iOS Live Activities for 4M+ users, consolidating legacy microservices into a single Nest.js backend, reducing service complexity and vendor costs while enabling a unified CRM digital customer profile
• Built a scalable event-driven architecture with AWS (SQS, Lambda, ECS, EventBridge, DynamoDB, S3) using a queue + worker + sidecar pattern, decoupling systems and improving fault tolerance; adopted as the standard for background jobs
• Orchestrated phased rollout of vendor migrations and legacy service deprecations, monitoring metrics in real-time, ensuring smooth transition, zero downtime, and full stakeholder alignment across product, marketing, and TPMs
• Led OpEx reviews for high-traffic distributed systems, defining SLOs, dashboards, metrics, and runbooks to improve reliability, uptime, and latency while establishing a company-wide operational model
• Accelerated engineering velocity by integrating AI/LLM tooling (MCPs, Devin) into workflows, using AI agents to automate infra tasks, streamline code reviews, and boosting delivery throughput
• Optimized authentication flows by removing vendor calls, cutting sign-in latency by 52% and account creation by 28%
• Drove cross-functional efforts to build a credit management system, automating workflows to save 50+ hours monthly
• Ensured high availability and rapid issue resolution as part of on-call rotations, utilizing Datadog for monitoring

Top Hat | Software Engineer -> Senior Software Engineer | August 2020 - October 2023
• Lead Dart developer of Aktiv's organic chemistry app, used in 600+ universities, leading to Aktiv's acquisition by Top Hat
• Developed a proprietary canonicalization algorithm in Dart to uniquely encode any organic molecule drawn by the user
• Implemented efficient graph data structures to give automated personalized feedback to over 500,000 students
• Architected a high-performance Flutter widget library, utilizing caching and memoization to reduce page load times by 10x
• Spearheaded cross-team refactors across frontend codebases reducing developer workload by 50%
• Leveraged TDD (test driven development) to add 2000+ integration and unit tests with 76% code coverage into CI/CD
• Re-architected Top Hat's legacy MongoDB content pipeline, improving scalability and long-term maintainability
• Identified memory leaks and optimized Java processes, reducing CPU/RAM usage 3x and cutting runtime by ~60%

Recurse Center | Participant | January 2020 - June 2020
• Studied data science, machine learning, algorithms, and backend development at a self-directed educational retreat

Novvum | Full Stack Software Engineer | January 2019 - November 2019
• Created Novvum's marketing website using Gatsby, styled-components, React, Redux, Typescript and GraphQL

Technovation | Frontend Software Engineer | January 2017 - January 2019
• Rebranded Django, Ruby on Rails, and Wordpress apps using Bootstrap, Sass, PHP, Grunt, and JavaScript
• Authored project-based curriculum in computer science, electrical engineering, robotics, and AI reaching 10k+ learners

PROJECTS
Feelsbot • AI-driven sentiment analysis app using Google Maps API, Twitter API, and IBM Watson
Magic Compass • iOS/Android Flutter app with in-app purchases; A/B tested the UX to optimize store performance

EDUCATION
The Cooper Union – New York, NY
Bachelor of Engineering, Chemical Engineering
Attended with a full-tuition scholarship valued at $150,000