Allison Colyer - Full Stack Software Engineer

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SKILLS
Programming Languages: Dart, Java, Ruby JavaScript, TypeScript, Python, CSS, Sass, HTML5
Technologies and Frameworks: Flutter, React, React Native, Node.js, Nest.js, GraphQL, Ruby on Rails, Jekyll, Git, Github, Github Actions, Gitlab, Netlify, AWS, Jest, Heroku, Google App Script, Yarn, Webpack

EXPERIENCE
Sweetgreen | Senior Software Engineer | November 2023 - present
• Optimized auth flows by removing vendor calls, cutting sign-in latency by 52% and account creation by 28%.
• Led architecture decisions to automate file transfer processes using AWS technologies (Lambda, S3, SQS)
• Designed a credit management system with audit compliance, automating workflows to save 50+ man-hours monthly
• Built a Nest.js backend microservice for vendor API integration, decreasing third-party dependencies
• Resolved fields for GraphQL types across a federated graph, optimizing data flow in a distributed system
• Ensured high availability and rapid issue resolution as part of on-call rotations, utilizing Datadog for monitoring
• Developed dashboards to optimize OpEx for critical high traffic services, improving observability, uptime, and latency

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
• Led cross-team collaboration to refactor logic 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
• Created and executed a six month timeline with milestones to re-architect Top Hat's legacy MongoDB content pipeline
• Identified memory leaks and optimized CPU and RAM usage by 3x in Java processes resulting in cost reduction on AWS
• Utilized Sentry to track bugs, achieving a 1-week average resolution time and reducing bug count by 75%

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
• Developed and implemented a PostgreSQL database model, storing scores for thousands of students
• Rebranded Django, Ruby on Rails, and Wordpress apps using Bootstrap, Sass, PHP, Grunt, and JavaScript
• Authored computer science, electrical engineering, AI, Arduino, and robotics curriculum for high school students

PROJECTS
Feelsbot | www.feelsbot.me
Feelsbot visualizes a city's mood using artificial intelligence based on the Tweets from people there
• Developed a server to call IBM's NLP (natural language processing) API to calculate the emotional sentiment of tweets
• Combine data from the Twitter API and Google maps APIs to tabulate the most recent tweets in geographic regions
• **Tech Stack:** React, GraphQL, Node.js, Heroku, Netlify, styled-components, IBM Watson, Vercel, Google Maps API

Magic Compass | https://www.alli.science/magic-compass-app/
An iOS and Android Flutter app that features a collection of cute characters to act as a compass needle
• Created in-app purchases with Google Play's API and App Store API, improved store performance with A/B testing
• **Tech Stack:** Flutter, Dart, Swift, Java, FlutterCompass, Provider, InheritedWidgets

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