Allison Colyer - Full Stack Software Engineer

213-293-9818 | allicolyer@gmail.com | www.alli.science | linkedin.com/in/allison-colyer | github.com/Allicolyer

SKILLS

Programming Languages: Dart, Java, JavaScript, TypeScript, Ruby, 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

- Led architecture decisions to automate file transfer processes using AWS technologies (Lambda, S3, SQS)
- · Architected and developed a credit management system, automating workflows and saving hours of manual work
- · 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

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 library of optimized Flutter widgets that cache complex calculations reducing page load speeds by 10x
- Led cross-team collaboration to refactor logic across Flutter 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