Jeremy **Nuttall**

Tech Lead · Senior Software Engineer

Austin, TX

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Skills

DevOps	AWS, Heroku, Docker, Terraform, CircleCI, GitLab CI, Datadog, Sentry
Backend	Express, NestJS, AWS Lambda, AWS ECS, AWS Fargate, AWS ApiGateway, Google GCP, REST API
Frontend	AWS Amplify, Redux, React, Angular, TailwindCSS, Webpack, Vite, HTML5, LESS, SASS
Database	PostgreSQL, AWS DynamoDB, Redis, Oracle PL/SQL
Programming	TypeScript/JavaScript, Ruby, Java, Kotlin, Haskell, Latex

Education

University of Southern California · *Los Angeles*

B.S. in Computer Science · *Graduated - Dec. 2019*

- Coauthored and published a research paper on the ability of machine learning technologies to exhibit and apply emotional responses.

Work Experience

Well Dot, Inc. · *Remote*

Senior Software Engineer (Technical Lead) · *Sep. 2022 - present*

- Initiated and orchestrated the conversion of more than 200,000 lines of legacy JavaScript to TypeScript.
- Mentored engineers in TypeScript, emphasizing consistent application of best practices and type correctness.
- Provisioned an easily manageable monolithic infrastructure in AWS ECS + Fargate using Terraform, focusing on high-availability, fault tolerance, and auto-scaling.
- Built fully automated CI/CD pipelines with Gitlab CI for containerized applications using Docker and AWS ECR.
- Developed and deployed a containerized NestJS API to AWS ECS, resulting in the consolidation of code, drastically improving developer velocity.
- Shared ownership for the the maintenance and improvement of more than 20 mission-critical AWS Lambda microservices.
- Created Gitlab CI and Terraform workflows to delpoy lambda functions from a monorepo.
- Tested both Lambda functions and NestJS monolith for correct behavior using jest and supertest to cover unit, integration, and functional layers.
- Facilitated multiple process improvements, including the standardization organization-wide ESLint, TypeScript, and jest configurations.
- Wrote and maintained HIPAA-compliant applications and infrastructure.
- Interviewed senior-level engineering applicants, screening for technical capabilities in a cloud-native environment.

Triplebyte · *Remote*

Senior Software Engineer · *Nov. 2021 - Sep. 2022*

- Lead engineer on a custom cheating detection system for code submissions capable of numerically quantifying similarity in $O(1)$ space and $O(n)$ time. The system achieved a 0% false positive rate and increased consumer confidence in the accuracy of code assessments.
- Owned the implementation and maintenance of large-scale full-stack applicant screening features in Ruby on Rails and React (TypeScript).
- Optimized Postgres queries using Arel (a Relational Algebra for Ruby), reducing costs and improving performance and stability.
- Implemented complex Figma designs using React, Redux, and TailwindCSS, collaborating directly with product owners and designers to optimize the UX of the final product.
- Tested application for correct behavior with Cypress, Jest, and rspec, achieving 80% test coverage for owned features.
- Outperformed the average developer velocity for the team by more than 100% by self-directing and optimizing own workstreams.

Appstem · *Remote*

Software Engineer (Project Lead) · *Jun. 2021 - Nov. 2021*

- Primary customer-facing technical contact and engineer in developing a custom full-stack React Native mobile app using Google Firebase for cloud-native backend deployment for a high-value client.
- Developed more than 30 custom React Native (TypeScript) components and resolved dozens of bugs in KFC's mobile ecommerce app over the duration of a 2-month subcontract.
- Collaborated with lead designer to produce React Native components for Mazoola, a family-safe digital wallet.
- Tested mobile/web applications and their backends for correct functional behavior using jest and Detox.
- Implemented an in-app store for a React Native fitness application using Google Firebase and Stripe.

eQ Technologic · *Costa Mesa, CA ·Remote*

Software Engineer · *Jul. 2019 - Jun. 2021*

- Designed, developed, and maintained 20 separate custom client-specified web applications in vanilla ES5 JavaScript and Backbone.js.
- Leveraged Spring framework in Java and Kotlin to develop backends capable of managing HIPAA-compliant internal employee healthcare data.
- Implemented an Angular frontend to facilitate the entry of health coverage requests from employees.