

Amanda Barrafato *Senior Software Engineer*

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Summary

Senior Full Stack Engineer with a unique background as a former audio engineer who transitioned to software engineering during the pandemic. My hands-on experience troubleshooting in live concert environments has honed my ability to adapt quickly and solve complex technical challenges in high-pressure environments. Passionate about continuous learning, I became adept in Ruby on Rails in my current role.

Skills

Languages/Frameworks: Ruby on Rails, GraphQL, PostgreSQL, TypeScript, JavaScript, Node.js, React, Next.js

Tools/Services: AWS, Docker, GitHub, CI/CD, Datadog, Jira

Soft Skills: Collaboration, Technical Leadership, Agile Methodologies, Pair Programming, Hackathon organization

Experience

Codecademy (acquired by Skillsoft)

July 2021 - Present

Online interactive coding teaching platform.

Senior Software Engineer

November 2023 - Present

- **API Development:** Supported frontend teams by implementing new GraphQL fields to migrate away from legacy REST API endpoints, reducing dashboard loading time by 50%.
- **Performance Optimization:** Reduced leaderboard feature loading time from 30s to 700ms by implementing a federated GraphQL query, significantly enhancing performance and user experience.
- **Backend Development:** Developed Ruby controller and corresponding GraphQL mutations to clone a model and its associated content from our database and in S3, saving curriculum developers several hours per development cycle.
- **Technical Leadership:** Coordinated project to clean up technical debt and remove redux dependencies from within our monorepo libraries to better serve our nx applications.
- **Frontend Development:** Contributed to Codecademy's open-source component library for web and mobile apps, ensuring consistent branding, best practices for accessibility, and a more maintainable codebase.
- **Team Culture:** Organized bi-weekly happy hours for my engineering team. Coordinated and led hackathons in Spring 2022, Fall 2022, and Spring 2023.

Software Engineer II

March 2022 - November 2023

- **Fullstack Development:** Worked as technical lead on a project designing and implementing a new data model to incorporate Codecademy content into the Skillsoft course catalog, with corresponding editing flows and learner-facing landing pages, GraphQL mutations, and queries.
- **Technical Leadership:** Served as technical lead for a migration project to migrate our frontend monorepo learning environment application from Redux Routing and REST API to Next.js and GraphQL, enabling the creation of a separate enterprise application, increasing our enterprise users by over 70,000.

Software Engineer I

September 2021 - March 2022

- **Product development:** Led a project updating content search in Codecademy's internal CMS, enhancing content discoverability and saving 3+ hours per week for curriculum developers.

Software Apprentice

July 2021 - September 2021

- **Refactored Frontend to TypeScript:** Migrated CMS codebase from JavaScript and REST API to TypeScript and GraphQL, resulting in a 40% increase in development speed for new features.

Freelance / Self-Employed Audio Engineer

May 2016 - March 2020

Education

Fullstack Academy - The Grace Hopper Program | Full Stack Web Development | 2020

New York University, New York, NY | *Bachelor's of Music* in Music Technology | 2017