Afzal Miah

Full-Stack Software Engineer | React · Ruby on Rails · React Native

Edinburgh | afzalmiah@afzalmiah.dev | afzalmiah.dev | LinkedIn | GitHub

PROFESSIONAL PROFILE

Full-Stack Software Engineer with 4+ years of experience delivering production web and mobile applications end-to-end. Experienced across the full stack — React, React Native, and Next.js on the frontend; Ruby on Rails, PostgreSQL, and Redis on the backend — with a strong focus on real-world performance, offline reliability, and clean API design. Comfortable owning features from scoping through to release, working closely with product and design teams.

TECHNICAL SKILLS

Core Stack: Ruby on Rails, JavaScript, TypeScript, React.js, React Native, PostgreSQL
Backend: Ruby, Python, FastAPI, REST APIs
Frontend: Next.js, Tailwind CSS, Storybook, HTML, CSS
Cloud & DevOps: AWS, Firebase, Heroku, Docker, GitHub Actions, Vercel
AI / NLP: spaCy, Hugging Face Transformers

PROFESSIONAL EXPERIENCE

Software Engineer | Trubshaw Cumberlege | *Aug 2022 – Present*

- Built an offline queuing and sync system using Sidekiq, Redis, and cron schedulers server-side, paired with a custom useRequestHook for request caching in React Native – enabling reliable app functionality in low-connectivity environments and increasing usage in those regions by 27%.
- Integrated Mapbox visualisations with custom layers, clustering, and real-time journey tracking – rendering assets as pins, routes as lines, and areas as polygons – improving user engagement with complex spatial data.
- Improved frontend performance through on-device data caching via custom React Native hooks, reducing load times by 35%.
- Built and maintained RESTful APIs in Ruby on Rails, supporting data-driven product interfaces.
- Implemented Docker-based environments and configured CI/CD pipelines with GitHub Actions, automating tests, linting, and build validation.
- Owned features end-to-end – from scoping and design to QA and iteration – reducing average release cycles from 5 days to 4.
- Delivered user-focused features across web and mobile platforms, prioritising UX quality, accessibility, and performance.

Junior Software Developer | Trubshaw Cumberlege | *Aug 2021 – Aug 2022*

- Designed scalable data models and background workers in Rails, improving query efficiency and reducing API response times.
- Developed and tested user-facing features in Ruby on Rails and React, ensuring UX consistency and accessibility.
- Facilitated a data-sharing integration with Napier University researchers, exposing anonymised product data via a scoped API – surfacing behavioural insights that informed UX improvements and improved user retention.
- Participated in architecture discussions covering API design, data flow, and maintainability.
- Supported Agile sprint cycles, retrospectives, and QA processes.

PROJECTS & PORTFOLIO

US Presidential Debate Analyser | *Personal Project | In Development* | Live Site · Frontend Repo · Backend Repo

- Full-stack NLP application analysing sentiment and speaker patterns across US presidential debates, built with Next.js, TailwindCSS, and a FastAPI backend.
- NLP processing using spaCy and NLTK for sentiment analysis and speaker attribution, with active integration of Hugging Face Transformers and planned support for VADER and TextBlob.

2D Side-Scroller Game | *Personal Project* | [Video Demo](#)

- Developed an interactive 2D side-scroller platforming game in Godot Engine – handling game loop logic, collision detection, and sprite animation.

Personal Portfolio | [afzalmiah.dev](#)

- Designed and built personal site using Next.js, TailwindCSS, and Framer Motion – showcasing projects and technical work with polished UI animations.

EDUCATION

University of Dundee | BA (Hons) Applied Computing (2:1) | 2017–2021

Stewart's Melville College | Advanced Higher Computer Science (A); Highers incl. Maths, Computer Science, Product Design (AAABBC) | 2015–2017