

Brandon Main

Software Engineer

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Work Experience

QGenda – Remote

Software Engineer | Dec 2021 – Present

- Delivered full-stack features in React (TypeScript), .NET Core, and Postgres for products used by hundreds of thousands of clinicians across 5,000+ healthcare providers.
- Designed and implemented provider search with AWS OpenSearch, reducing search time from seconds/minutes to milliseconds and enabling fuzzy matches across thousands of assignments, significantly improving usability and reliability.
- Owned the development of a data integration pipeline onboarding one of the company's largest customers (tens of thousands of staff) via cron-driven imports from AWS S3, ensuring continuous synchronization of complex healthcare data.
- Integrated distributed event systems with AWS SNS/SQS, improving reliability and responsiveness in mission-critical, high-uptime environments.
- Wrote automated performance/load tests in Python using Locust, validating API scalability and responsiveness under heavy workloads.
- Mentored junior engineers through detailed, actionable code reviews, raising engineering quality standards and receiving consistent recognition from peers.
- Built an AI-powered code review process on Claude Code, integrating a Jira MCP server and full codebase context so it catches implementation bugs and flags gaps against business requirements.

Oak Ridge Associated Universities (EPA Contractor) – Remote

Software Developer | Oct 2020 – Dec 2021

- Built interactive data visualization dashboards with D3.js and Angular, integrating NOAA weather datasets and predictive models to identify and visualize bacteria contamination risks in coastal waters.
- Developed REST APIs with .NET Core + SQL in distributed, containerized systems deployed on AWS EC2/Cloud9 using Docker.
- Automated testing across stack (Jasmine/Karma, MSTest) to increase reliability of releases for government environmental applications.
- Obtained and maintained Public Trust Security Clearance, ensuring compliance for federal contracting work.

Education

University of Nevada, Reno — B.S. Computer Science & Engineering | May 2020

Technical Skills

AI & Tooling: Claude Code, Model Context Protocol (MCP), LLM-assisted code review, prompt engineering

Languages: C#, JavaScript, TypeScript, SQL, Python, Java, C++, HTML, CSS

Frameworks: .NET Core, ASP.NET MVC, React, Angular, Node.js, jQuery

Databases: SQL Server, Postgres, MongoDB, SQLite

Cloud (AWS): S3, EC2, Lambda, API Gateway, SNS, SQS, OpenSearch/ElasticSearch, Route53, Cloud9, CloudWatch

Tools: Git (GitHub/Bitbucket), Jira, Confluence, Docker, Unit Testing (Moq, MSTest, Jasmine/Karma), Locust (Python), EF, Dapper, Linux/Unix