Blake McCracken

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[JavaScript/TypeScript] [C#] [SQL]
[React] [React Native] [.NET] [Entity Framework]
[Auth0] [Kafka] [Terraform] [Docker] [GitHub Actions] [AWS]

Experience

Senior Software Engineer,
Integrate: **Feb 2022 - Present**

- Built a Confluent Kafka solution that operates a background service, consuming and producing event messages connected to Debezium for Postgres. This new architecture facilitated the decoupling of microservices, enhancing system flexibility.
- Developed a new xUnit integration testing infrastructure using C#'s WebApplicationFactory and xUnit's ClassFixture. Improved endpoint test execution time by 90%, reducing it from an initial range of 10-30 seconds to a consistently fast 1-3 seconds. This overhaul also enhanced test readability and maintenance with the adoption of the Given-When-Then syntax.
- Engineered a new OIDC and OAuth2.0 compliant RBAC auth service that uses Auth0 for authentication and which features a Business Unit/Organization hierarchy.
- Provisioned and managed Confluent Cloud resources with Terraform and GitHub Actions workflows.

Frontend Developer,
Pyx Health: **June 2021 - Feb 2022**

- Significantly reduced memory usage in the app's React code by implementing request cancellation tokens within the useEffect cleanup process of components. This improvement was quantified using the Memory Snapshot tool in Chrome's DevTools, which showed a 10x decrease during intensive component swapping tests.
- Tripled large dataset upload speeds by standing up an Azure VM to run data loads with a .NET solution.
- Streamlined the frontend codebase by transitioning unit tests from Enzyme to React Testing Library, resulting in 3,000 lines of code deletions and substantial improvements in test run time.

Software Engineer,
KEYSYS: **May 2019 - May 2021**

- Implemented a microservice based CRM which included an OIDC compliant Identity Provider.
    - Led the UI for this project, which included building a custom progress bar, implementing a dockable and expandable sidebar for navigation, and rendering multiple grids on screens of all sizes.
- Collaborated with a client's team in building a new microservice that handles material quantity calculations for aggregations in their construction software.
- Automated internal test result reports by creating a recursive algorithm that reads comments via the Confluence API and writes them to a spreadsheet.

Education / Certifications

Innovate Birmingham,
I Am Bham Software Development Bootcamp:
Certificate in Software Development, The University of Alabama at Birmingham (UAB)