Samantha Zammit

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WORK EXPERIENCE

Fundthrough   **Toronto, ON**
Software Engineer   *February 2023 – Present*
- Spearheaded the migration of a critical Ruby on Rails service for Hellosign to asynchronous Python lambdas, resulting in improved efficiency and scalability.
- Optimized the Plaid interface by reducing API calls by 50% through migration to a more efficient architecture and leveraging AWS Glue and Firehose for transactional data, enhancing overall performance.
- Developed a Python-based Plaid identity verification service, integrated with the front-end application, streamlining the 'know your customer' process and enhancing user experience, reducing the risk of fraud and improving the efficiency of the risk team.
- Migrated from synchronous API-based communication between microservices to asynchronous communication utilizing Apache Kafka, enhancing system responsiveness and enabling more efficient data processing.
- Led initiatives to introduce Kafka streams and KSQL DB in existing legacy Ruby on Rails applications as well as new applications, improving data processing capabilities and enabling real-time data.
- Facilitated knowledge sharing by training fellow engineers on microservices communication patterns and architecture, enhancing team collaboration and skill development.
- Led a major project to integrate the front-end experience with Intuit Quickbooks, focusing on user authentication, specifically working around customizing AWS Cognito integrations and data ingestion, expanding the product's reach and functionality.
- Implemented third-party integrations for automating "know your business" credit checklist items, such as creditSafe and D&B, enhancing data accuracy and streamlining processes for the Credit and Risk teams.

Client Support Engineer   *January 2022 – February 2023*
- Resolved application and data issues for users and administrators through Jira ticketing system and live chat, ensuring timely resolution and maintaining high customer satisfaction.
- Developed new features in Ruby on Rails and React applications, enhancing functionality and user experience.
- Enhanced scalability by migrating a synchronous data synchronization service to asynchronous Sidekiq queues, resulting in improved system performance.
- Provided level 1 IT support for application access management and new team member onboarding, ensuring smooth operations and effective IT assistance.
- Collaborated with integrated systems such as Salesforce, Pipefy, Segment, New Relic, etc. ensuring seamless integration and data flow across platforms.
- Utilized various AWS services including Cognito, ECS, and S3, optimizing cloud infrastructure and enhancing system reliability, scalability, and cost.

Woodbridge Group   **Mississauga, ON**
Software Engineering Student   *June 2020 - August 2020*
- Maintained and refactored web applications and legacy systems, resolving bugs and improving performance, enhancing user experience and system reliability.
- Developed a C++ application that gathered depth and stereoscopic images from a 3D camera and converted the depth images into unsigned 16-bit arrays to analyze 1mm depth differences, enabling precise analysis of manufacturing data.
- Explored Blazor Electron applications, expanding knowledge and expertise in modern development frameworks.
- Enhanced and modified stored procedures across multiple databases, optimizing database performance and efficiency.

Software Engineering Student   *May 2019 - August 2019*
- Developed a configurable alert notification web application in ASP.NET Core based on the user's settings for production line alerts using Twilio, improving communication and response capabilities in manufacturing facilities.
- Developed a visual information system that was written as a Xamarin application that was used on a Raspberry Pi running Ubuntu that was a client for the alert system, which communicated asynchronously via signalR and displayed the alert on a variety of screens in the plants, improving operational efficiency and safety protocols.

LEADERSHIP EXPERIENCE

Fundthrough   **Toronto, CA**
Backend Technical Lead, Quickbooks Embedded Integration Project   *January 2022 – Present*

- Led a collaborative effort with Intuit Quickbooks Canada to develop and integrate an embedded experience within the Quickbooks domain and web application.
- Directed cross-functional teams, including direct collaboration with the Front-end technical lead, management, and counterparts at Intuit, fostering effective communication and alignment of project goals.
- Orchestrated project planning and execution, establishing robust technical processes and timelines to ensure project milestones were met.
- Successfully completed the embedded integration project within a remarkably short timeframe of 6 months, exceeding initial estimates of 6 to 12 months, showcasing leadership and project management abilities.

EDUCATION

Carleton University   **Ottawa, ON**
Bachelor of Engineering, Biomedical and Electrical Engineering

SKILLS & INTERESTS

Skills: Ruby on Rails | Python | SQL | AWS | C# | C++ | C | Verilog | VHDL | Javascript | Java | HTML | Xamarin | Agile | Spanish | Event Driven System Design | Apache Kafka

Interests: Software development, Cloud development, Real-time systems, Data engineering, AI, Web applications, Medical device technology, Piano, Skiing, Hiking, Canine Agility