Zuraiz **Zafar**

SOFTWARE ENGINEER

Toronto, ON, Canada

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Deliver value through efficient, reliable software development prioritizing quality and faster feature delivery.

Relevant Skills

Languages	TypeScript (and JavaScript), Java, C#, Ruby, Python, Go, SQL
Technologies	HTML/CSS, React, Express, Spring, Angular, Selenium, Sling, .Net Core, ThreeJS, CDK, Cypress, Puppeteer, Jest
Tools	AWS, Bash, Unix, Git, GitHub, Visual Studio Code, IntelliJ Idea, Docker
Databases	DynamoDB, MongoDB, PostgreSQL, MySql

Experience

Amazon Web Services
Seattle, United States (Remote)

SOFTWARE DEVELOPMENT ENGINEER — *March 2020 - May 2023*

- Using **SNS** and **Lambda** improved **IoT SiteWise** deletion workflow for approx. 7200 points/day/account while still maintaining SLAs.
- Designed and implemented **Privatelink** support for **IoT SiteWise** control plane to reduce customer costs and improve security. Using **AWS Cloudformation** consolidated endpoints with **ELB**s to improve customer experience.
- Using **React**, **Redux**, and **ThreeJS**, created console pages for **IoT Twinmaker** to visualize and manage entity component relationships with realtime data. Created custom hierarchical tree components to render a tree with pagination.
- Improved customer experience by allowing **IoT SiteWise** customers to map data to **IoT Twinmaker** with one click, allowing customers to simplify effort and avoid duplicate data. Allowing customers to visualize 3d data as well as run graph queries over 10,000 entities.
- Handled and reduced **on-call** load by validating metrics, improving user experience, and fixing transient invalid and session timed-out canaries. Upgraded canaries to use **Puppeteer** and **Cloudwatch Synthetics**
- Improved **CI/CD** pipelines by adding support for **feature flags**. Verifying changes by unit tests using **Jest** and integration tests using **Cypress** on **Fargate**
- Migrated consoles using Amazon's internal infrastructure to Native AWS using **CDK**, while still keeping customer sessions active.

Outstem (formerly Outreach, University of Ottawa)
Ottawa, Canada

JUNIOR SOFTWARE DEVELOPER — *May 2018 - August 2019*

- Worked in a **scrum** team of 3-5, utilizing **Apache Sling**, **Java** , **Angular**, **Postgresql**, and **Ruby**.
- Implemented a **JWT** based Authentication System to keep 20,000 potential user data safe.
- Created secure endpoints and data structures that increased developer productivity by 2400%.
- Helped design architecture for development, deployment, and testing utilizing **Docker** containers.

Klipfolio Inc.
Ottawa, Canada

SOFTWARE DEVELOPER (CO-OP) — *January 2017 - December 2017*

- Wrote middleware to transform **Grails** server pages stored on FTP server into HTML pages, allowing for fixing documentation without a new product release.
- Refreshed and simplified UI with new styles, tutorials, and custom scripts for on-boarding more potential users.
- Created **OAuth** connectors to connect with external services. allowing for more potential users.
- Wrote migration scripts in **Go** to migrate Facebook schema, affecting at least 2,700 clients.
- Implemented and wrote tests for bug fixes such as determining sorting style on drill down tables.

Education

University of Ottawa
Ottawa, Ontario

B.A.Sc IN SOFTWARE ENGINEERING (CO-OP) — *September 2015 - December 2019*

CGPA 7.71 /10 (3.7/4.0)

Projects

Umple for Vscode

VSCODE EXTENSION FOR THE UMPLE PROGRAMMING LANGUAGE — *November 2018 - Present*

- A Visual Studio Code extension using **Typescript** and **Java** for the Umple programming language, with over 1200 downloads.
- Added snippets, error/warning checking, compilation, and code generation
- Implemented and added tests for issues opened by users.
- Supporting M.Sc and Ph.D. students with features they add to the umple language.

Open Source Contributions

2018 - Present

- **Microsoft Visual Studio Code** - Added a new context menu option to copy certain fields in the keybinding configuration editor.
- **Umple** - Fixed a bug with the compile option related to pathing from the root.