Zuraiz Zafar

Toronto, ON, Canada

(647) 458-9049 | zuraizz@outlook.com | https://digized.xyz | github:digized | linkedin:zuraizzafar

---

Software Engineer

A highly creative and solutions driven software engineer with expertise in data visualization.Skilled in designing and implementing solutions to improve customer experience and performance with data driven mechanisms for service metrics and alarming. A highly collaborative professional adept at working in teams and skilled at communicating effectively, sharing knowledge and expertise, and fostering a positive environment to achieve shared goals. Proficient in using various programming languages for client and server software, with a demonstrated ability to quickly adapt to new projects as evidenced by open source contributions.

Technical Skills

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

Experience

Amazon Web Services   *March 2020 - May 2023*
Software Development Engineer   *Seattle, United States (Remote)*

- Optimized IoT SiteWise deletion workflow for 13M data points utilizing SNS to maintain SLAs.
- Designed and implemented Private Link support to reduce customer costs by 66% and improve security.
- Consolidated multiple endpoints with load balancers, aggregating apis to improve customer experience.
- Created custom pages, hooks and components using React, such as a hierarchical tree component allowing customers to visualize and manage entity component relationships.
- Collaborated with multiple teams to visualize and map data between services, allowing IoT Sitewise customers to utilize graph query and 3d visualization functionality provided by IoT Twinmaker.
- Reduced release times by 50% by stabilizing testing infrastructure, implementing feature flags, reducing on-call load, and identifying and fixing UX problems determined by metrics.
- Mentored multiple interns to design, implement, and release their projects to customers.

Outstem (formerly Outreach, University of Ottawa)   *May 2018 - December 2019*
Junior Software Developer   *Ottawa, Canada*

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

Klipfolio Inc.   *January 2017 - December 2017*
Software Developer (Co-op)   *Ottawa, Canada*

- 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, tutorials, and custom scripts for on-boarding potential users.
- Connected external services using OAuth connectors. allowing for more potential users.
- Migrated database with Golang to update Facebook schema, preventing 2,700 customers from data loss.
- Implemented and wrote tests for new features and bug fixes such as determining lexicographic or numerical sorting style on drill down tables.

Education

University of Ottawa   *September 2015 - December 2019*
Bachelor of Applied Science, Software Engineering (CO-OP)   *Ottawa, Canada*

Projects

Partix   *May 2023 - Present*
Photo sharing app to be used at large events   *Link*
- Produced a cross platform app to aggregate, manage, and project candid photos taken by guests.
- Integrated with google and facebook sign in to increase onboarding.
- Wrote machine learning classifiers to discard inappropriate or unflattering pictures.

Umple for Vscode   *November 2018 - Present*
Vscode extension for the Umple modeling language   *Link | Github*
- Created an extension using Typescript and Java to allow users to run the Umple compiler locally and reduce server load, currently over 1300 downloads.
- Added new features for snippets, error and warning checking, compilation, and code generation.
- Managed bug fixes, features, and tests for issues opened by users.
- Supporting Masters and Ph.D. students with features they add to the Umple language.

uOttawa Schedule Generator   *October 2017 - December 2019*
Schedule Generator   *Link | Github*
- Scraped over 8000 courses from uOttawa website using Python.
- Designed and wrote a core system to look for course clashes using maps and trees data structures.
- Utilized React for front-end being used by over 200 people on peak days.

Open Source Contributions

Microsoft Visual Studio Code Added a new context menu option to copy specific fields in the key binding configuration editors.
Umple Fixed a bug with the compile option related to pathing from root.