

# Zuraiz Zafar

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## Experience

### Armstrong Fluid Technology

Senior Software Developer - IOT

May 2024- Present  
Remote, Canada

- Reduced regressions by introducing tests, refactoring critical code, and outlining improvements to support new feature development, using CI/CD pipelines to streamline development workflow.
- Normalized pump types, migrating multiple pump controller types to AWS based data ingestion pipeline.
- Developed highly requested features such as an efficiency monitoring system to track pump performance within optimal parameters

**Technologies:** Python, Pytest, Typescript, AWS, Docker, Dev Containers, Angular

### Amazon Web Services (Identity)

Software Development Engineer II

December 2023 - May 2024  
Toronto, Canada | Hybrid

- Reduced request times and idle resources with client timeout and caching for a core identity service.
- Maintained the SSO service allowing 2M+ users to access Amazon services like Q developer, with bug fixes and service onboarding.

### Amazon Web Services (IoT)

Software Development Engineer II

March 2020 - May 2023

Seattle, United States | Remote | Toronto, Canada

- Worked on various teams to help customers Load (iot Sitewise), and Visualize data in 3d (iot Twinmaker) and collaborated with multiple teams over API, UX, and broadcast behavior between the services.
- Optimized GDPR deletion API and endpoints, ensuring 99.99% SLA and reducing maintenance costs by 3X for scalable launch.
- Worked on console features and improvements, such as a pricing plan management system, preventing customers data loss while modifying 3d scenes, and reducing load times for workspace creation.
- Reduced release times by 50% through CI/CD pipeline test stabilization, feature flag implementation with A/B testing support, on-call load reduction, and metrics-driven UX problem improvement.

**Technologies:** Java, Typescript, React, AWS, Threejs, Jest, React-three-fiber, Cypress

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

Junior Software Developer

May 2018 - August 2019  
Ottawa, Canada

- Built core features, including authentication, localization APIs, and frontend components improving development time from 8h to 5min, for an outreach management platform serving 20,000+ users.

**Technologies:** Typescript, Angular, Java, Sling, Selenium, PostgreSQL, Docker, Ruby, Ansible

### Klipfolio Inc.

Software Developer

January 2017 - December 2017  
Ottawa, Canada

- Improved user retention by simplifying and refreshing the UX. Reduced cognitive load with guided tutorial, and accelerated documentation updates from weekly to real-time by building a barebones Grails compiler.

**Technologies:** Javascript, Grails, JQuery, Golang, MySQL

## Education

### University of Ottawa

Bachelor of Applied Science, Software Engineering (CO-OP)

September 2015 - December 2019  
Ottawa, Canada

## Technical Skills

### Languages

Typescript (and Javascript), Python, Java, C#, Ruby, Go, SQL, HTML, CSS

<b>Technologies</b>	React, Express, Nextjs, Spring, Angular, Grails, Selenium, Jest, ThreeJS, Cypress, Puppeteer, JQuery, Docker, API Gateway, Cloudwatch, AWS Lambda, AWS CDK, AWS Step Functions, S3, SNS, SQS, EC2, VPC, AWS Cloudformation
<b>Databases</b>	DynamoDB, PostgreSQL, Mongodb, MySQL

## Projects

### Partix

May 2023 - Present

[Link](#)

*Photo sharing app to be used at large events*

- Produced a PWA to aggregate, manage, and project candid photos taken by guests at events.
- Wrote machine learning classifiers to discard inappropriate or unflattering pictures using tensorflow.
- Reduced image loading latency utilizing AWS Cloudfront CDN from 10s to 0.1s for images stored in S3.
- Hosted the app to over 300 guests at the initial launch event garnering positive feedback.

### Umple for Vscode

November 2018 - Present

*Vscode extension for the Umple modeling language*

[Link](#) | [Github](#)

- Created an extension using Typescript and Java enabling more than 1300 users to run the Umple compiler locally and reduce server load.
- Enhanced with new features for snippets, error and warning checking, compilation, and code generation.
- Managed bug fixes, features, and tests for issues opened by users.
- Supported Masters and Ph.D. students with features they add to the Umple language.

### uOttawa Schedule Generator

October 2017 - December 2019

*Schedule Generator to determine best timing for courses*

[Link](#) | [Github](#)

- Scraped over 8000 courses from uOttawa website using Python with Puppeteer.
- Designed and wrote an algorithm to look for course clashes using maps and trees data structures.
- Visualized weekly schedule using React supporting over 200 people on peak days.

## Open Source Contributions

**Microsoft Visual Studio Code** Simplified copying key binding id by adding a context menu option improving user flow.

**Umple** Added support to specify a path when the Umple cli is not in the project directory.