

BASIL YUSUF

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SKILLS

Languages: Java, Go, C/C++, TypeScript, JavaScript, Python, SQL, PostgreSQL, HTML5/CSS3, Ajax
Tools: React, Node, jQuery, Dagger, Spring Boot, AWS, Azure, Jenkins, Kubernetes, Docker, Git, Jira

WORK EXPERIENCE

Google

Software Engineer (*Go, Python, Ruby, C++*)

Toronto, Ontario

Dec 2024 - Present

- Developed a scalable Go API for deploying customer support AI agents on Apple Messaging for Business, enabling plug-and-deploy integrations that dynamically parses user intent and supports structured interactions such as list pickers, app clips (Swift), app extensions and forms, serving 100k+ users
- Designed and implemented a localization pipeline using python scripts, regular expressions, and gemini-flash-2.5 to automate translation of Angular-based customer support AI agent platform on Google Cloud, extracting 10,000 strings and generating structured JSON locale files for French, Portuguese, and Spanish across multilingual regions
- Built and deployed a new region for zone isolation testing within the Risk AI org using Go, introducing network-level fault injection and disconnect simulations to assess outage resilience and eliminate single points of failure across a multi-tenant, enterprise-scale architecture
- Built an annotation API for financial data (access to financial transactions internally and externally) for a major European Bank within the Risk AI org to maintain SOC-2 and GDPR Compliance

Deloitte

Software Engineer (*TypeScript, Python*)

Toronto, Ontario

Sep 2023 - July 2024

- Transitioned from manual deployments to Continuous Deployment (CD) by building a Deployment Pipeline that tests and deploys directly to AWS infrastructure, reducing manual deployment time from 20 minutes to < 5 minutes
- Built a Python-based AWS Lambda Scheduler to run daily jobs that fetch new cybersecurity incidents, enhancing the timeliness and effectiveness of our incident response and monitoring systems
- Implemented an Application Load Balancer in AWS for efficient traffic distribution across multiple Fargate instances, reducing downtime from 15 minutes to 0 seconds for each deployment

Amazon

Software Engineer Intern (*Java, TypeScript*)

Toronto, Ontario

May 2023 - Aug 2023

- Built a web application for Amazon Kids+ subscription management system to retrieve regional offers, integrate metadata, and automate customer eligibility updates, reducing processing time by 98% from 3-5 minutes to under 5 seconds
- Lowered subscription service downtime from 5 minutes to ~ 0.1 seconds by automating AWS Systems Manager configuration (AWS AppConfig) deployments for customer eligibility using Java and AWS CDK

University of Guelph

Undergraduate Researcher (*C++*)

Guelph, Ontario

May 2023 - Aug 2023

- Developed a modular TCP server in C++ using advanced OOP design patterns such as Singleton, Builder, and Decorator, which streamlined the integration of security/logging features, significantly boosting system adaptability
- Optimized a C++ TCP server by implementing a robust observer-subject framework, which enhanced real-time event logging and observer management, thereby handling multiple client connections simultaneously

TD Bank

Software Engineer Intern (*Java, Python*)

Toronto, Ontario

Jan 2023 - Apr 2023

- Migrated 9 SOAP API endpoints to 3 REST API endpoints in Java and Spring Boot using OpenAPI specifications that scales to over a million customers resulting in reduction of production downtime from 5 minutes to < 1 second
- Devised a robust XML parser using Python that seamlessly converted 9 endpoints from XML to JSON, boosting data accessibility for other engineers on the team by 75% and significantly reducing parsing time by 90%

EDUCATION

University of Guelph

Bachelor of Computing, Computer Science and Economics

Guelph, Ontario

- cGPA: 3.70, Research Assistant (C++ Networking) and Teaching Assistant (Java Object-oriented Programming)

PROJECTS

- distributed-systems** (*Go, Zig*) Comprehensive guide, algorithms and tools on distributed systems (230+ ★)
octree (*Go, TypeScript*) Open Source latex editor with dynamic tools/templates serving ~6k MAU (75 ★)
chsim (*Zig, Raylib*) Distributed Consistent Hashing Ring Simulator made using raylib (10+ ★)
dockermake (*JavaScript, Node.js*) An npm package that creates Makefiles for docker (200+ downloads, 26 ★)
fiable (*React Native*) Hybrid mobile app that incentivizes biking through a reward system (GryphHacks 🏆)
beachify (*MongoDB, Express, Node.js, React.js*) A full-stack web app to plan a beach trip (CoastalHacks 🏆)

