

BASIL YUSUF

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📖 EDUCATION

University of Guelph

Bachelor of Computing, Computer Science and Economics

Guelph, Ontario

Canada

- cGPA: 4.0

⚙️ 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

Deloitte 🔗

Software Engineer (DevOps / Infrastructure)

Toronto, Ontario

Oct 2023 - Present

- Transitioned from manual deployments to Continuous Deployment (CD) by building a Deployment Pipeline that tests and deploys directly to AWS infrastructure, reducing deployment time from 20 minutes to < 5 minutes
- 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
- Developed and configured Docker containers for React.js, MongoDB, Express/GraphQL, and Nginx, successfully deploying them on AWS ECS - Fargate, within a secure VPC environment, ensuring robust security measures
- Implemented AWS Secrets Manager Password Rotation for DocumentDB cluster security, regularly updating access credentials for enhanced database security and compliance
- Created an automated testing suite with Cypress and Jest to ensure rigorous testing and validation of application features before deployment, achieving a code coverage of >95%

Amazon 🔗

Software Engineer Intern

Toronto, Ontario

May 2023 - Aug 2023

- Engineered a web app for Amazon Kids+ to fetch subscription offers from different regions, attach metadata to offers, and update customer eligibility for offers, reducing processing time from 3 - 5 minutes to < 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
- Developed and deployed Virtual Private Cloud (VPC) and AWS Lambda infrastructure using AWS CDK (TypeScript), ensuring secure connections by adding IAM roles for enhanced deployment and connectivity

TD Bank 🔗

Software Engineer Intern

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%
- Led the design of SOAP API sequence diagrams for 7 crucial TD Credit Platform endpoints, revealing deficiencies within the existing legacy endpoints, and ultimately leading the migration efforts to robust REST endpoints

University of Guelph 🔗

Undergraduate Researcher

Guelph, Ontario

Jan 2023 - Apr 2023

- Developed architecture design for a sophisticated game matchmaking server, which integrated microservices and RabbitMQ to drive substantial scalability and streamline communication between players and servers
- Executed the seamless integration of MongoDB as a cornerstone for secure player data storage, ensuring uninterrupted game progress preservation and streamlined query operations for enhanced system responsiveness

Interac 🔗

Software Engineer Intern (Platform and Cloud Architecture)

Toronto, Ontario

Sep 2022 - Dec 2022

- Developed authentication infrastructure of Interac e-Transfers in Canada using Azure Key Vault, Azure Stack Hub, and Azure Identity Management of a system that drives 371.4 million highly secure transactions every day
- Initiated and coordinated building of Interac's Digital Platform architecture and infrastructure, used by Canadians 660,000 times daily, through Jira assignments and documenting Proof-of-Concepts for other Architects

University of Guelph 🔗

Software Developer Intern

Guelph, Ontario

May 2022 - Aug 2022

- Programmed the landing page of ResearchSpace web application to assist 1000 researchers store semantically Linked data as RDF (Resource Description Framework) graphs using React, TypeScript and Sass
- Reduced 20% of production and build time by migrating old JavaScript code to TypeScript React Components

</> PROJECTS

Fiable (React Native, Google Cloud Platform) Hybrid mobile app that incentivises biking through a reward system

Beachify (MongoDB, Express, Node.js, React.js, Hedera Blockchain) A full-stack web app to plan a beach trip

C++ Networking (C++, IPv4, Asio) A repo with networking projects like 1waymessaging, 2waymessaging, etc

