Carlos Perez (Canadian Citizen)

UBC Honours in Computer Science, 4th Year

https://github.com/carlosperez67   613-276-6747   carrlosaperrez@gmail.com

TECHNICAL SKILLS: Java, Kotlin, Python, R, SQL, TypeScript, Git, Linux, SpringBoot, Angular, React, AWS, Terraform, GitHub Actions

TECHNICAL WORK EXPERIENCE

Software Developer Coop, Communications Security Establishment (CSE)   May-Aug 2024

- Led the development of a full-stack comment service using TypeScript and Angular, collaborating directly with stakeholders to plan and deliver an epic to clients.
- Developed REST API endpoints, database migration scripts, and a recursive frontend comment component for CRUD actions.
- Increased log ingestion reliability and **eliminated several hours of downtime by implementing a Dead Letter Queue with RabbitMQ**, providing visibility into failed messages and ensuring continuous system uptime.
- Delivered diverse features across multiple applications as part of a small, agile team, requiring minimal supervision while actively participating in design decisions and implementing full-stack changes across repositories.

Jr Software Engineer, Planview (Vancouver BC)   Sept 2023-May 2024

- Led CI/CD pipeline migration from Jenkins to GitHub Actions, reducing deployment time by 20% and phasing out legacy on-prem servers prone to crashes.
- Automated AWS EC2 disk upsizing with Ansible playbooks, massively reducing manual intervention and downtime, freeing up substantial engineering hours
- Developed a deployment monitoring web application using Python and Vue.js
- Designed and configured scalable cloud infrastructure (EKS, EC2, Karpenter) with automated releases and infrastructure management using **Terraform** on AWS.
- Addressed critical infrastructure issues, writing POSIX-compliant scripts and cron jobs to enable self-healing and ensure system resilience.

Data Engineer Co-op, Rogers Communications (Toronto)   May-Aug 2022

- Automated workflows and data pipelines using Python and Azure Data Factory, streamlining data processing across systems.
- Enhanced Python scripts to dynamically generate SQL stored procedures based on parameters from .xlsx and .csv files, expanding functionality and reducing manual work.
- Executed complex SQL queries in DBeaver and MySQL to securely ingest encrypted customer data into Oracle, Hadoop, and Azure databases, ensuring data integrity across platforms.

NOTABLE PROJECT

Soccer Match Outcome Predictor, R, linear regression ML   Mar-Apr 2022

- Created a multi-dimensional linear regression supervised ML model to predict the final score of a soccer game using halftime data.