

Rohan Amjad

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Education

University of Calgary

Sep 2018 - May 2024

Bachelor of Science in Software Engineering

Work Experience

CES Energy

May 2025 - Present

Software Developer

- Developed full-stack features in a .NET C# Blazor app using Syncfusion to automate Excel workflows, generate PDF reports, and integrate with AX 2012 ERP, streamlining chemical delivery operations for 100+ users.

Pason Systems

May 2022 - Aug 2023

Software Developer Intern

- Migrated 200+ legacy SVN repositories to GitLab across 33 SCRUM sprints, completing 200+ DevOps tasks that enhanced code visibility, enabled CI/CD pipelines, and streamlined internal engineering workflows.
- Maintained 15+ .NET C# production apps deployed on 500+ global workstations. Used Splunk log analysis to diagnose and resolve critical issues, reducing system deployment time by 33%.
- Designed and implemented Python-based token authentication middleware for internal dev apps, enabling real-time, secure access to backend data and significantly reducing login errors for a 25+ developer team.
- Co-led the department-wide CI/CD migration from BitBucket/Jenkins to GitLab CI, configuring GitLab via Terraform scripts and mentoring 2 new hires to ensure reliable, maintainable deployment infrastructure.
- Built scalable GitLab CI/CD pipelines using YAML and deployed self-hosted runners via Terraform, automating the build and test lifecycle for 100+ Python and Java modules, improving release confidence and stability.

Projects

Real-Time IoT Computer Vision Platform

Sep 2023 - Apr 2024

C++, AWS IoT Core, MQTT, AWS Lambda, AWS DynamoDB, AWS API Gateway, React, WebSocket API

- Led a team of 4 as technical lead to deliver an MVP computer vision platform for automated traffic counting in Calgary, showcased at the engineering design fair and pitched to City of Calgary stakeholders for a smart-city.
- Designed a scalable AWS backend ingesting 100+ MQTT messages per second from Jetson devices running DeepStream, processing 1080p@30fps video with TrafficCamNet and detecting 20-40 vehicles per frame.
- Developed a React dashboard with WebSocket API to visualize real-time and historical traffic insights, enabling engineers to monitor live pedestrian and vehicle counts for better planning and infrastructure decisions.

Watcheddit

Mar 2022 - May 2022

JavaScript, React, Redux, Material-UI, Express, Node.js, MongoDB, Docker, Azure, Google Cloud Run, Mocha

- Led a team of 6 as technical lead, setting up CI/CD pipelines while guiding full-stack development of a Reddit-style movie and TV discussion app, accelerating delivery and promoting consistent team workflows.
- Built a RESTful backend with Express and MongoDB using CQRS and event sourcing, enabling better scalability and auditability of user actions, achieved 80%+ unit test coverage with Mocha to reduce bugs.
- Developed a responsive React/Redux frontend with Material-UI, containerized the app with Docker, and automated CI/CD pipelines to Azure and Cloud Run, accelerating deployments and eliminating manual releases.

Skills

Languages: Python, C#, Java, C++, JavaScript, SQL, HTML/CSS

Frameworks/Libraries: .NET, React, Spring Boot, FastAPI, Django, Express, Next.js, Redux, Vue, JUnit, Mockito, Mocha

Tools: Git, Docker, GitLab CI/CD, Kubernetes, Terraform, Azure, AWS, GitHub Actions, Node.js, Azure DevOps, Linux, Bash, OpenAPI, Postman, PowerShell, NGINX, Google Cloud, Splunk, SonarQube, MongoDB, PostgreSQL, MySQL