Muhammad Muzammil

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Skills

Programming Languages: C++ (4 yrs), Python (4 yrs), JavaScript ES6 (3 yrs), C# (3 yrs), TypeScript (3 yrs), HTML/CSS (3 yrs), Java (2 yrs), SQL (2 yrs), Powershell (1 yr)
Technologies:PyTorch, Microsoft Co-pilot, Transformer Models and Arch, AWS, Git/GitHub, React, Django, Vue.js, Angular, .NET Framework, PostgreSQL, MySQL

Education

University of Calgary Calgary, AB
Bachelor of Science in Computer Science *Expected June 2027*

- **Relevant coursework:** Data Structures and Algorithms, Operating Systems, Object-Oriented Programming, Natural Language Programming, Computer Architecture, Data Science, Computer Networks
- **Honors:** 2022-2023 Deans List Award, First Year Scholars Program

Experience

Software Engineer Student May 2025 – Present
Cenovus *Calgary, AB*

- Automated data processing workflows using **Python and PowerShell**, reducing manual intervention in quarterly sensor data commissioning and saving **$40k annually in labor costs**
- Debugged 50+ **HTML and C#/.NET** operator dashboard graphics, reducing system downtime by **15%**
- Managed and queried **SQL databases** using MS SQL Server to support business intelligence and operational reporting on PowerBI

Full-Stack Engineer July 2025 – Present
Thinkera *Germany, Remote*

- Created full-stack application with RAG pipeline using **React, TypeScript, FastAPI, and Supabase** for a funded startup team
- Built hybrid RAG system using FAISS vector search, SQLite FTS5 keyword search, and graph traversal, achieving **sub 800ms** retrieval latency
- Implemented machine learning feedback loop with human-in-the-loop validation, improving extraction accuracy to **90-95%**

Software Team Member Oct 2022 – May 2025
UofC Solar Car *Calgary, AB*

- Developed the digital dashboard systems and real-time test interfaces on **Qt 6.0 using C++ and QML**
- Optimized workflows by transitioning to a Linux workspace, achieving a **50% increase** in efficiency
- Collaborated with other sub-teams to ensure seamless project integration using Jira and Agile methodologies

Projects

Automated Stock Signals | ***Python, Pandas, NumPy*** *github.com/muzman123/stocksignals*

- Developed Python pattern scanner analyzing **500+ stocks** using pandas/NumPy with 6-factor scoring algorithm
- Back-tested on 20 historical patterns, achieving **75% accuracy** in predicting 5%+ declines
- Automated email alerting with SMTP integration, delivering CSV reports of scored patterns with price targets and chart URLs

RateXpose | Typescript, Nextjs, Git, Node, Vercel *ratexpose.ca*

- Developed a full-stack social-budgeting website that encourages price transparency as part of an ongoing startup project, implemented authentication with **Supabase**
- Engineered a secure web form that anonymously collects, verifies, and stores bill information
- Published RateXpose waitlist gaining **200+ emails** so far, continuously optimizing based on user feedback

Last Stop | ***C#, GLSL, Unity3D, Blender*** *github.com/muzman123/last_stop_unity3D*

- Owned end-to-end design and development of 3D PS2-style horror game in Unity during a one-week game jam, receiving **6k+ downloads** and **15k+ impressions**
- Enhanced player experience with custom shaders, real-time lighting and post-processing effects
- Designed low-poly Blender models and carried out texture compression to maintain **stable 60 FPS**