MUHAMMED PATEL

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EDUCATION

Memorial university of Newfoundland   Sep. 2021 – Apr 2026

Bachelor of Science in Computer Science **(Dean's List 2024-2025)**   *St. John's, NL*

EXPERIENCE

Nasdaq - Verafin   Jan. 2025 - Aug. 2025

Software Developer Intern   *St. John's, NL*

- Developed backend services for data ingestion and transformation pipelines operating on large-scale financial datasets in production.
- Implemented ETL workflows to validate and normalize data before ingestion into the enterprise data lake.
- Rebuilt an event-generation mechanism to reliably trigger events upon pipeline step completion, improving system resilience and real-time processing.
- Optimized demographic data processing by introducing snapshot-based logic, reducing redundant historical processing and improving pipeline efficiency.
- Built internal Python tooling and worked with AWS (EC2, S3, IAM) to support cloud-based data infrastructure in a regulated environment.

MetaCrust Services   Jun. 2024 – Jan. 2025

Cybersecurity Intern   *St. John's, NL*

- Conducted vulnerability assessments using Nmap, Nessus, and manual testing, identifying X critical / Y high-risk issues across Linux and Windows hosts
- Deployed monitoring tools and SIEM dashboards to enhance threat detection and mitigation.

MSA - Memorial University Of Newfoundland   Oct. 2021 – Jan. 2025

Web Developer   *St. John's, NL*

- Developed and maintained full-stack web applications using React and Node.js, integrating REST APIs and user authentication.
- Improved UI responsiveness and backend performance while maintaining clean, modular codebases.

PROJECTS

AI Shield — Distributed API Platform | Github ◯   Sept. 2025

Python, FastAPI, React, SQLite, Railway, Vercel

- Designed and built a scalable backend system for real-time request analysis using FastAPI and Python.
- Implemented modular risk-scoring logic and classification pipelines processing concurrent API requests.
- Developed a React-based dashboard for system monitoring and analytics.
- Deployed production services using Docker and cloud hosting platforms with CI/CD workflows.

Link Intelligence Web Service | Github ◯   Nov. 2024

Flask, AWS EC2, Nginx, Gunicorn

- Designed and developed a RESTful web service to process and classify URLs using external APIs and asynchronous request handling.
- Implemented backend logic for request validation, response caching, and error handling to improve performance and reliability.
- Deployed a production-ready application on AWS EC2 using Nginx and Gunicorn, with HTTPS and reverse proxy configuration.
- Built a simple web interface to visualize results and test API endpoints.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, Bash, Scala
Backend & APIs: FastAPI, Flask, REST APIs, Authentication
Frontend: React, HTML, CSS
Databases: PostgreSQL, SQLite, Data Modeling
Cloud & DevOps: AWS (EC2, S3, IAM, Lambda, Step Functions, DynamoDB, EMR, ElastiCache), Docker, CI/CD, Linux, Terraform
Data & Systems: Data Pipelines, ETL, Logging, Monitoring, Spark
Tools: Git, GitHub, Jira, Confluence
Security & Reliability: Secure API design, IAM principles, least-privilege access, input validation