Arya Patel

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science and Finance

2023 - 2027

TECHNICAL SKILLS

Languages: Python, Java, C++, C, SQL, JavaScript, TypeScript, HTML, CSS, Bash

Frameworks: Node.js, Flask, GraphQL, Next.js, React, TensorFlow, PyTorch, .NET Framework, Jest

Tools: MySQL, PostgreSQL, Docker, Kubernetes, AWS (RDS, S3, Lambda, EC2), GCP, SQL Server, GitLab CI/CD

EXPERIENCE

MPAC May 2024 - Aug. 2024

Software Engineering Intern

- Optimized MPAC's Java based Geo-spatial Convolutional Neural Networks classification accuracy by 16%
- Developed 4+ internal RAG LLM models, and reduced cloud environment response times by 0.4 seconds
- Built AWS SQS queue with Spring Boot endpoints, to automate malicious content checks using Java Streams

Hack The North

Jan. 2024 - Present

Frontend Software Engineer

- Upgraded sponsorship dashboard to reduce data rendering time by 34% in HTN's distributed cloud setup
- Implemented a responsive design on the dashboard table, allowing seamless usability across 10+ device types
- Built an automated reminder system, securing \$500,000+ in sponsorship and reducing manual workload by 20%

Guardian Sept. 2023 - Feb. 2024

Software Engineering Intern

- Engineered a Python backend health appointment scheduling feature, driving app adoption to 600+ MAUs
- Optimized scheduling UX with efficient RESTful API endpoints and PostgreSQL by reducing response times
- Improved app security protocols by automating regular vulnerability assessments using AES-256 encryption

PROJECTS

Echo | Hume AI, React, Node.js, JavaScript, TypeScript

- Developed a real-time sentiment analysis application for reminiscence therapy within dementia patients
- Outperformed industry benchmarks with a 25% improvement in mood prediction accuracy within patient trials
- Implemented the Hume AI API to determine voice intonation and movement, for nuanced emotional analysis

Robo-Advisor | Python, Pandas, NumPy, Matplotlib, Git

- A quantitative analysis script predicting the least volatile portfolio from a set of arbitrary user-provided stocks
- Implemented multi-threading, queues and recursion to reduce request runtime from RESTful APIs by 53%
- Consistently generated portfolios with over 40% less volatility when compared to the S&P500 and NASDAQ

Promptopia | JavaScript, TypeScript, Next.js, HTML/CSS, Git

- Developed a full-stack CRUD application using Next.js, utilizing React Hooks and GraphQL to streamline UX
- Achieved a 20% reduction in page load times through code refactoring, allowing for exceptional app scalability
- Integrated an OOP-based framework utilizing Java and SQL for secure user data storage and retrieval processes

Movieland | JavaScript, React, OMDB API, HTML/CSS

- Reverse-engineered the Netflix homepage to create a React-based clone with searchable movies and TV shows
- Featured IMDb ratings, enabling users to see public ratings for enhanced decision-making and user engagement