Haashir Khan

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Education

University of Toronto   **Expected December 2025**
Bachelor of Science in Computer Science
Relevant Coursework: *Databases, Systems Programming, Software Engineering*

Work Experience

Software Developer Intern   **May 2022 – August 2022**
Univeris Corporation   *Toronto, ON*
- Optimized Python and Golang data pipelines by using parallel processing techniques and efficient memory management reducing execution time by 10%
- Improved automated KYC data validation, adding automated error detection and correction mechanisms, reducing onboarding errors by 20%
- Refined SQL indexing strategies reducing query time by 6% for large-scale financial datasets

Projects

Discover Me - DeerHacks IV Hackathon Project   **Feburary 2025**
Node.js, Next.js, React, JavaScript, Vercel, HTML, CSS, OpenAI API   Github | Website
- Built an AI-powered travel recommendation web app using Next.js, delivering personalized destination matches based on user personality quizzes
- Utilized Google Maps and Street View APIs to enhance user engagement, by providing an interactive, immersive exploration of 5 recommended locations
- Deployed on Vercel with a modular architecture, allowing future enhancements such as real-time travel data and social features
- Coded a scalable and responsive UI/UX, improving user retention and achieving a 90% user satisfaction rate

PlogGo - Social Plogging App   **January 2025**
TypeScript, React Native, Expo, Python, Flask, Android Studio, MongoDB, Jira   GitHub
- Developed a cross-platform Plogging app using React Native, Expo and Android Studio, supporting 99.9% of software-based user agents (Web, iOS, Android)
- Implemented an image classification system to allow users to take pictures of litter during jogs and classify it with an 87% accuracy, earning in-app points for eco-friendly actions
- Integrated social media features for users to share progress, supporting communities of over 1000+ active users
- Built the back-end with Flask and used MongoDB (NoSQL) to store user data, activity logs, and litter classification details

TexChange - Chat Roulette App   **December 2024 – January 2025**
React.js, Express.js, Node.js, JavaScript, Docker, AWS EC2   GitHub | Website
- Developed a real-time text chat platform in a team of 3 using React and Express.js, implementing modular and reusable UI components
- Deployed the application using Docker for containerization and hosted it on an AWS EC2 instance, ensuring scalability and a 99.9% uptime
- Engineered a low-latency WebSocket-based chat system with Socket.io and Express.js, reducing message delivery time to <50ms on average
- Improved the chat server architecture to support up to 500 concurrent chatrooms by implementing efficient WebSocket connection handling, load balancing, and memory optimization

Microservices-Based E-commerce System   **December 2023 – January 2024**
Java, JUnit, SQL, Python, Flask, PostgreSQL   GitHub
- Designed User, Product, and Order services using Java, each backed by PostgreSQL databases for efficient data storage and retrieval
- Built a Flask-based Load Balancer, enhancing inter-service communication between 12+ service instances through round-robin scheduling
- Maximized PostgreSQL indexing for high-volume transactions (over 1 million orders in 4 minutes)
- Implemented RESTful APIs with data persistence layers and transaction management for atomic operations

Skills

Programming Languages: Python, Java, JavaScript, Golang, SQL
Frameworks & Libraries: JUnit, PyTest, React.js, React Native, Express.js, Node.js, Next.js, Flask, Spring
Tools & Platforms: Docker, Postman, AWS, PostgreSQL, Firebase, MongoDB, Git, Unix/Linux
Developer Skills: SDLC, OOP, Data Structures, Algorithms, RESTful APIs, Agile, Databases, UI/UX, RDBMS