

Haashir Khan

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Education

University of Toronto

Honours Bachelor of Science in Computer Science

Expected May 2026

Work Experience

Automation and Systems Analyst Intern

Perimeter Institute of Theoretical Physics | Azure, Docker, PostgreSQL, Prisma, Ansible, PowerBI

Waterloo, ON

- Automated health checks for 60+ services using Ansible, cutting execution time from 2 days to <5 minutes (99%)
- Implemented an Azure ETL pipeline processing 2M+ emails, automating ingestion via PowerShell, SharePoint, and Power Automate
- Engineered a real-time monitoring platform for 40+ services, reducing check latency 30x (5 min to <10s) using Next.js, PostgreSQL, Docker, Prisma, NGINX
- Built Power BI dashboards over 1K+ Jira issues via Jira REST API + advanced JQL, enabling real-time engineering insights
- Developed an interactive Power BI email security dashboard analyzing 3 years of enterprise data at scale

August 2025 – December 2025

Software, Cloud and DevOps Intern

Perimeter Institute of Theoretical Physics | JavaScript, Bash, Microsoft Azure, Salesforce

Waterloo, ON

May 2025 – August 2025

- Engineered a restartable PDF compression script for ETL pipeline, reducing average size of 20K+ PIRSA files by 83% and saving 800+ GB in storage
- Refactored the node-red-contrib-salesforce open source library to use jsforce, improving efficiency by 96% by reducing API calls from 36K to 1.5K/month
- Built an Azure-hosted CRON tool using JavaScript, HTML and CSS to periodically auto-generate documentation for 200+ Node-RED services, reducing lookup time by 40%
- Upgraded the node-red-contrib-okta open source library with SSO and group-based access, eliminating manual login and reducing access errors by 90%
- Benchmarked and integrated NVIDIA Parakeet AI for physics lecture transcription, replacing OpenAI's Whisper model and achieving a 320x faster transcription with 95% accuracy

May 2022 – August 2022

Software Developer Intern

Univeris Corporation | Python, Golang, SQL, PyTest, GoTest

Toronto, ON

- Optimized Python and Golang data pipelines by using parallel processing techniques and efficient memory management reducing execution time by 48%
- Leveraged PySpark for distributed data processing, improving performance on large-scale financial datasets and reducing batch processing time by 55%
- Improved automated KYC data validation, adding automated error detection and correction mechanisms, reducing onboarding errors by 23%
- Refined SQL indexing strategies reducing query time by 36% for large-scale financial datasets
- Developed and implemented automated test suites using PyTest and GoTest, increasing test coverage by 45% and reducing critical bugs by 30%

Personal Projects

NFL Prediction Model

September 2024 – December 2024

Python, PyTorch, Pandas, NumPy, Jira

[Github](#) | [Report](#)

- Developed a quantitative Mixture of Experts (MoE) model integrating RNN, CNN, and MLP architectures to predict NFL game outcomes, achieving a 10% accuracy improvement
- Processed and engineered features from the Big Data Bowl 2025 dataset (52M+ rows), including spatio-temporal tracking and game metadata
- Conducted exploratory data analysis to validate key insights, such as home-team advantage and percentile-based player metrics, improving feature selection and interpretability

Skills

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

Libraries/Frameworks: Node Red, Pandas, NumPy, PySpark, Matplotlib, PyTorch, Tensorflow, React.js, React Native, Express.js, Node.js, Next.js, Flask

Testing & Cloud: PyTest, GoTest, Jest, JUnit, Postman, Docker, Amazon Web Services (AWS), Microsoft Azure

Other Technologies: Linux, Node.js, MongoDB, PostgreSQL, Git, Object Oriented Programming (OOP), Data Structures, Algorithms, Relational Databases (RDBMS)