

HASAN KHAN

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EDUCATION

Ontario Tech University

Sep 2021 - May 2026

Bachelor of Software Engineering & Co-op

Oshawa, ON

- Courses: Distributed System, Embedded System, Mobile Application Development, Software Architecture Design, Database Management, Microprocessors Architecture, Software Project Management, Computer Network, Intro to Artificial Intelligence, Object Oriented Programming, Web programming, Data structures

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL, JavaScript, HTML5, CSS

Frameworks & Libraries: Django, ReactJS, Node.js, Express.js, FastAPI, Pandas, NumPy, JUnit, AJAX

Developer Tools: Azure DevOps, AWS, GCP, Jenkins, Git, Docker, Kubernetes, CI/CD, Power BI, Linux, Arduino

Development Practices: Agile (Scrum), Waterfall, Model-View-Controller (MVC)

EXPERIENCE

Software Engineering Intern

May 2024 - Aug 2025

Ontario Power Generation

Pickering, ON

- Designed and implemented a **Django-based web application** using **Python**, **SQL**, and **JavaScript**, deployed on **Azure**, centralizing system ownership data to streamline engineer communication, supporting **1,000+ users** daily across nuclear fleets in Ontario, improving efficiency and reducing response times fleet-wide.
- Built **automation scripts** in **Python** and designed interactive **Power BI dashboards**, reducing manual reporting effort by **60+ hours** per month and accelerating data-driven decisions.
- Implemented analytics solutions for reliability engineering by building automated data pipelines with **Azure DevOps** and integrating **CI/CD workflows** to track equipment performance and improve operational efficiency.
- Led cross-functional engineering meetings, implementing **Agile methodology** and actively enhancing applications to align with industry standards and support continuous improvement.

Partnerships & Operations Assistant

May 2023 – April 2024

Ontario Tech University

Part-time contract (Hybrid)

- Utilized **Python** and **Pandas** to improve processes, automate reporting tasks, and support data-driven decision-making.
- Assisted in organizing events and facilitating stakeholder communications, strengthening operational efficiency and student-faculty engagement.

PROJECTS

Airport Operation Database | *Node.js, Express.js, MySQL, JavaScript*

- Developed a web platform enabling real-time access and management of flight and operations data for airport operations.
- Implemented **REST APIs** with **Express.js** to connect the **JavaScript** frontend with the backend, supporting search, arrivals/departures tracking, and operational status updates.
- Designed optimized **SQL** schemas and queries to ensure reliable performance and scalability for end users.

HireHub: Job Recruitment Website | *Python, ReactJS, MongoDB*

- Built a responsive full-stack application connecting a **React**-based frontend with a **MongoDB**-powered backend.
- Developed webpage features from initial designs, ensuring an intuitive user experience and robust backend connectivity.

Unified Interface for Energy Systems (In Progress) | *Django, NumPy, Machine Learning, Arduino*

- Designing a unified control interface that integrates multiple energy sources, using **machine learning models** for optimization and **Arduino**-based controllers for automated energy management.