

Ashwin Jakanathan

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EDUCATION

Toronto Metropolitan University

Computer Engineering (Co-op) - **GPA: 3.5**

Toronto, Ontario

Expected April 2028

- o **Related Coursework:** Computer Programming, Electric Circuit Analysis, Digital Systems, Object-Oriented Eng Analysis and Design, Algorithms and Data Structures, Microprocessor Systems, Database Systems

SKILLS

Programming: Java, Python, C++, C, C#, MATLAB, SQL, HTML, CSS, JavaScript

Cloud & DevOps: AWS (EC2, S3, RDS), Cloud Deployment, CI/CD Concepts, Scripting, Cloud Security Fundamentals

Tools: Git, IntelliJ, PyCharm, VS Code, QGIS, Multisim, Unity, AutoCAD, SolidWorks, Tableau, Power BI, Oracle, NextJS, React, Unix Shell, Flask

Soft Skills: Team Collaboration, Problem Solving, Agile Fundamentals, Analytical Thinking

Concepts: Cloud Infrastructure, Database Management, Data Visualization, System Optimization, Automation

EXPERIENCE

Anu Machine

Toronto, Ontario

Machine Operator

July 2022– Aug 2025

- Accomplished precision part production using CNC machinery, **optimizing processes** for customer satisfaction through meticulous attention to detail and quality control.
- Streamlined operations by expertly managing the loading and unloading of raw materials and finished goods, resulting in a **20% reduction** in production time and ensuring a seamless workflow in CNC machining.

JRAA Inc.

Toronto, Ontario

Web Developer

July 2024– Aug 2024

- Developed and deployed a responsive company website using Next.js and React, enhancing user experience and SEO performance.
- Integrated interactive UI components and dynamic forms to streamline customer inquiries.
- Collaborated with team members to align web content and layout with business goals and brand identity.

PROJECTS

Bookstore Management Application

Personal Project

Feb 2025 - April 2025

- Built a Java-based bookstore system using **OOP** and the State pattern for role-based user management and file I/O persistence.
- Demonstrated strong understanding of software design principles and system architecture through modular, maintainable code.

Student Course Planner

Personal Project

Feb 2025 - April 2025

- Developing an app in Java with a topological sort to plan courses; included data-driven insights for workflow planning.
- GUI built with JavaFX to help students manage prerequisites and semesters visually.

E-Commerce Database Application

Group Project

Sep 2025 - Present

- Designed a campus marketplace **DBMS** with entities for users, products, orders, and payments.
- Implemented advanced **Oracle SQL** queries and automated database operations using **Unix Shell** scripts in a **Linux** environment.
- Generated reports and ensured data consistency to support secure, reliable transactions.

Personal Portfolio Website

Personal Project

Sep 2025 – Present

- Built and deployed a personal portfolio using **Next.js**, **React**, and **Tailwind CSS** to showcase projects in a responsive, SEO-optimized layout.
- Implemented a **contact form with API integration** for secure message handling and dynamic user feedback.
- Enhanced site performance and accessibility with structured metadata, sitemap generation, and modular design.