

# Ashwin Jakanathan

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## EDUCATION

<b>Toronto Metropolitan University</b> <i>Computer Engineering (Co-op) - GPA: 3.5</i>	<b>Toronto, Ontario</b> <i>Expected April 2028</i>
<ul style="list-style-type: none"><li>o <b>Related Coursework:</b> Computer Programming, Electric Circuit Analysis, Digital Systems, Object-Oriented Eng Analysis and Design, Algorithms and Data Structures, Microprocessor Systems, Database Systems</li></ul>	

## 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

<b>Anu Machine</b> <i>Machine Operator</i>	<b>Toronto, Ontario</b> <i>July 2022– Aug 2025</i>
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- 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.

<b>JRAA Inc.</b> <i>Web Developer</i>	<b>Toronto, Ontario</b> <i>July 2024– Aug 2024</i>
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- 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

<i>Personal Project</i>	<i>Feb 2025 - April 2025</i>
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- 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

<i>Personal Project</i>	<i>Feb 2025 - April 2025</i>
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- 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

<i>Group Project</i>	<i>Sep 2025 - Present</i>
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- 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

<i>Personal Project</i>	<i>Sep 2025 – Present</i>
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- 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.