Ashwin Jakanathan

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EDUCATION

Toronto Metropolitan University   **Toronto, Ontario**
Computer Engineering (Co-op) - GPA: 3.5   *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, VHDL

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

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

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

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

Hackathon Project (Rift Rewind 2025) – Are You The Problem?

Hackathon Team Submission - Next.js, React, TailwindCSS, Node.js, AWS Bedrock, Riot Games API   *Oct 2025*
- Built an **AI-driven League analytics platform** that generates personalized gameplay insights using **AWS Bedrock** and **Riot API**.
- Developed a **full-stack web app** with dynamic dashboards and deployed via **Vercel + GitHub CI/CD**.

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.

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.

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.