

Abinan Jeyachandran

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EDUCATION

B.Eng - Computer Engineering

Toronto Metropolitan University

Graduated: Apr 2025

Toronto, Ontario

PROFESSIONAL EXPERIENCE

Sales & Business Development Intern

Sharpstakes Inc

June 2025 – Present

Toronto, Ontario

- Increased **onboarding speed** by analyzing **CRM data** and optimizing workflows, cutting setup time for new clients.
- Generated **\$5,000 in sales** in 3 weeks by coordinating with cross-functional teams to improve process efficiency.
- Maintained **50+ client database** using structured data management, supporting scalability and future upselling.
- Improved **backend processes** by collaborating with technical teams to streamline **B2B configuration tasks**.

Operations & Technology Intern

All Bright LTD

May 2024 – May 2025

Toronto, Ontario

- Assisted in **organizing client and project schedules** to improve **operational efficiency**.
- Explored ways to **streamline administrative tasks** using **spreadsheets**, saving approximately **5 hrs/week**.
- Supported **tracking of service requests** and **team assignments** to enhance **reporting** and **resource planning**.
- Collaborated with the team on **process improvements** and small **tech solutions** to reduce **manual work**.

PROJECTS

Parallel Computing Customer Analysis System

C++, OpenMP

- Boosted **data processing speed by 60%** by developing a multi-threaded backend system.
- Ensured accurate results by applying **thread synchronization techniques**, eliminating race conditions.
- Reduced runtime by **40%** by iterating algorithms using **Agile sprints**.

Secure Banking System

Python, AES, HMAC, Socket Programming

- Secured **financial transactions** by implementing a client-server architecture with **Python sockets**.
- Protected **data integrity** by using **AES encryption** and **HMAC authentication**.
- Cut debugging time by **50%** through encrypted logging for real-time monitoring.

Bookstore Management System

Java, JavaFX, MySQL, Design Patterns

- Improved **data security** by building a full-stack system with **role-based access control** in Java/MySQL.
- Optimized query performance using **Singleton design pattern** for database access.
- Enhanced **user experience** by developing a responsive UI in **JavaFX**.

AI Code Optimization Suite

Python, Meta LLaMA 3, RAG, OpenAI API

- Reduced **code generation time by 75%** by integrating RAG with automated testing.
- Built modular backend with **LLM and API integration** for dynamic code validation.
- Improved **development speed** by 30% with AI-assisted testing workflows.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript, SQL, Bash

Backend & APIs: REST, Flask, multithreading, microservices, modular system design

Databases: MySQL, structured data management

AI & Automation: OpenAI API, Meta LLaMA 3, RAG, AI-assisted testing

Cloud & DevOps: Google Cloud, AWS fundamentals, Docker, Jenkins, CI/CD

Security: AES, HMAC, secure authentication, socket programming

Methodologies & Tools: Agile, TDD, unit testing, Git, GitHub, VS Code