Abinan Jeyachandran

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EDUCATION

B.Eng - Computer Engineering   Graduated: Apr 2025
Toronto Metropolitan University   *Toronto, Ontario*

PROFESSIONAL EXPERIENCE

Operations & Technology Lead   May 2024 – May 2025
All Bright LTD   *Toronto, Ontario*

- Improved **task scheduling** by assisting with **C++ scripts** to automate operations, reducing delays by 40%.
- Enhanced **process efficiency** by supporting **performance tracking tools**, saving 15 hours weekly.
- Organized **staff and project data** using structured **data management**, enabling faster reporting.
- Streamlined **workflow operations** by assisting with automated solutions, accelerating project turnaround.
- Analyzed **operational metrics** to identify inefficiencies, supporting actionable improvements.

Sales & Business Development Intern   June 2025 – Present
Sharpstakes Inc   *Toronto, Ontario*

- Optimized **client onboarding** by analyzing **CRM data** and workflows, reducing setup time by 30%.
- Improved **process efficiency** by coordinating with cross-functional teams, generating $10,000 in value.
- Maintained a **50+ client database** using structured data, supporting scalability and reporting.
- Streamlined **backend configuration processes** by collaborating with technical teams.
- Generated **actionable insights** by analyzing workflows, enhancing decision-making.

PROJECTS

Parallel Computing Customer Analysis System
C++, OpenMP

- Boosted **data processing speed** by 60% by assisting in a **multi-threaded backend** using OpenMP.
- Ensured **data accuracy** by applying **thread synchronization** techniques, eliminating race conditions.
- Reduced **runtime** by 40% by iterating algorithms in **Agile sprints**, improving system performance.

Secure Banking System
Python, AES, HMAC, Socket Programming

- Secured **financial transactions** by assisting in building a **client-server architecture** using Python sockets.
- Protected **data integrity** by implementing **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** via **role-based access control** in Java/MySQL.
- Optimized **database queries** using **Singleton design pattern** for performance.
- 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 workflows.
- Built a **modular backend** with **LLM** and **API integration** for dynamic validation.
- Improved **development speed** by 30% through AI-assisted testing and automation.

TECHNICAL SKILLS

Languages & Backend: Python, Java, C, C++, TypeScript, SQL; REST APIs, Flask, microservices, multithreading.
Integration & Protocols: SOAP, REST, GraphQL, third-party API integration, interface architecture.
Databases & Cloud: MySQL, structured data; AWS/GCP fundamentals, Docker, CI/CD.
AI & Automation: OpenAI API, Meta LLaMA 3, RAG, AI-assisted testing.
Security & DevOps: AES, HMAC, secure authentication, socket programming, Jenkins.
Methodologies & Tools: Agile, TDD, unit testing, Git/GitHub, VS Code.
Design & Fundamentals: Data structures, algorithms, design patterns, scalable architecture.