

Srivathsan Prasanna Venkatesan

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SUMMARY

First-year Computer Engineering student focused on embedded systems and full-stack software development, with hands-on experience across hardware (RP2040, ESP32, PCB design) and networked backend systems (Python, Go).

EDUCATION

Toronto Metropolitan University (TMU) <i>B.Eng, Computer Engineering</i>	Toronto, ON 2026 – Present
Victoria Park Collegiate Institute <i>Graduated with the I.B. Diploma and OSSD Diploma</i> • Recieved Ontario Scholar Award • Graduated with 90% average	Toronto, ON 2021–2025

WORK EXPERIENCE

Camp Counselor <i>The Neighborhood Organization</i> • Worked with children from various backgrounds, including children with mental health conditions such as ADHD and Autism • Collaborated with managers to complete data entry to properly track campers and gather demographic data • Managed camper conflicts and worked to ensure a safe and inclusive environment	Toronto, ON Summer 2025
Community Development Worker <i>The Neighborhood Organization</i> • Prepared comprehensive guides (over 20 free services) for resources available to immigrants in the Oshawa Region for the newly opened TNO branch • Worked together in a small cohort using Microsoft teams for communication and used outlook/calendar to input appointments and log clients when working the front desk.	Toronto, ON Summer 2024

PROJECTS AND EXTRACURRICULARS

QuickSpec – Local Hybrid RAG CLI for Hardware Datasheets <i>Developer</i> • Built a fully local retrieval-augmented generation CLI for querying hardware datasheets, combining table-aware PDF chunking (pymupdf4llm), quantized ONNX bge-small-en-v1.5 embeddings, and a USearch vector index with SQLite-backed chunk storage • Implemented hybrid search fusing dense vector retrieval with BM25 sparse retrieval via reciprocal rank fusion (RRF); ran a rigorous evaluation showing plain hybrid RRF outperformed hybrid+reranked results on table-dense technical documents • Packaged for cross-platform distribution using GitHub Releases for pre-quantized ONNX weights and platformdirs for path handling • Github: https://github.com/srivp365/QuickSpec	Toronto, ON 2026
lol-analyzer – Full-Stack League of Legends Stats Tracker <i>Developer</i> • Designed and deployed a full-stack player stats tracker (lol-analyzer.sriv.me) using a FastAPI backend, React/Vite frontend, PostgreSQL, and Redis, containerized with Docker Compose and served via nginx on Oracle Cloud Infrastructure • Github: https://github.com/srivp365/lol_analyzer	Toronto, ON 2026

CERTIFICATIONS & LICENSES

Machine Learning Specialization <i>Stanford University / DeepLearning.AI – Andrew Ng</i> • Completed a 3-course specialization covering supervised learning, unsupervised learning, and best practices for ML/AI model development	2026
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TECHNICAL SKILLS

Industry Software: OnShape, Microsoft Office Suite (Excel, Word, Teams, Powerpoint)
Programming Languages: Python (pandas, scikit-learn), Java, SQL, LaTeX, React.js, Tailwindcss, React Native
Tools and Platforms: GitHub, VS Code, Overleaf