Priyanka Mamman

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EDUCATION

University of Waterloo — Waterloo, ON

Bachelor of Applied Science in Computer Engineering — *Expected Jun 2028*

Relevant Coursework: Probability & Statistics, Operating Systems, Control Systems, Data Structures & Algorithms
Current: Computer Architecture, Compilers, Computer Networks

TECHNICAL SKILLS

Languages: Python, C++, C, TypeScript, JavaScript, Java, SQL, MATLAB, Verilog, VHDL

Frameworks / Tools: FastAPI, React, Git, Linux, Azure DevOps, Databricks, AWX, ServiceNow, Power Automate

AI / Data: Agentic AI, Data Pipelines, Data Preprocessing, Semantic Search, Vector Search, RAG, FAISS, LangChain

EXPERIENCE

CIBC — Toronto, ON

Software / Application Developer — *Jan 2026 – Apr 2026*

- Built an **agentic banking application proof of concept** using Python and FastAPI for multi-step workflows and application integrations.
- Built Python prototypes and proof-of-concept **data pipelines** while evaluating Databricks and cloud AI capabilities for internal use cases.
- Shipped features for **CopyDesk**, translating product requirements into tested application functionality through iterative development and debugging.
- Designed reusable Power Automate solutions that reduced manual effort by **nearly 80%** and enabled complex workflows to be reused across teams.

CIBC — Toronto, ON

ServiceNow Developer — *May 2025 – Aug 2025*

- Automated document-approval workflows, reducing manual workload by **over 80%** while improving reliability and repeatability.
- Developed automation and **semantic-search functionality** in ServiceNow and debugged platform issues affecting internal workflows.

George Weston Ltd. — Toronto, ON

Systems and BI Analyst — *Sep 2024 – Dec 2024*

- Developed Power BI dashboards that reduced manual reporting effort by **over 50%**.
- Evaluated spaCy and NLTK and built Python-generated Confluence templates supporting internal automation and NLP initiatives.

Ontario Ministry of Transportation — Toronto, ON

DevOps Intern — *Jan 2023 – Jun 2023*

- Automated VM user-management workflows using **AWX, Azure DevOps, and TypeScript** across MTO technology teams.
- Standardized reusable Azure DevOps YAML pipelines across teams to improve consistency in development and deployment workflows.

PROJECTS

Continuum — *Python, FastAPI, JavaScript, Chrome Extensions*

- Built a capture pipeline that ingests browser actions, page context, screenshots, evidence, and transcripts and transforms them into structured process data.
- Added normalization, deduplication, grounding to source evidence, and semantic search so noisy real-world workflow data remained traceable and reusable.

DevGPT — *Python, React, FAISS, LangChain, RAG*

- Built an AI codebase assistant using vector embeddings, FAISS semantic search, and RAG to retrieve grounded code context from natural-language queries.

STM32 Operating Systems Kernel — *C, STM32F401RE, Systems Programming*

- Implemented task creation, stack management, scheduling, yielding, and task lifecycle functionality on an STM32 microcontroller and debugged behavior against automated tests.