Tushya Iyer

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Education

British Columbia Institute of Technology — Burnaby, Canada

B.Sc. in Applied Computer Science; Major in Database ***GPA: 87%*** — *Sep 2021 – Dec 2025*

Computer Information Technology Diploma ***GPA: 90%*** — *Sep 2019 – Dec 2021*

Skills

Languages: Typescript, Python, Go, PowerShell, C/C++, C#, SQL, R

Tools & Frameworks: Terraform, AWS, GCP, Ollama, NextJS, Docker, Git, Kafka, Fedora Atomic

Skills: System Architecture, Infrastructure as Code, Network Design, Machine Learning, Data Analytics, CI/CD

Experience

Neuroware AI — Vancouver, Canada

CTO — *February 2025 – Present*

- Built Neuroware Cloud MLOps platform using React, TypeScript, and Docker for one-click deployment of LLMs across AWS and GCP infrastructure, turing Stripe subscription billing and automated user management
- Implemented full-stack SaaS solution with programmatic infrastructure deployment, executing Terraform and CloudFormation through TypeScript code to provision cloud resources
- Engineered Cloud Harvester IoT data pipeline processing real-time telemetry from 10k+ devices using MQTT protocol and Go-based ingestion services
- Built Cloud Harvester analytics dashboard with React and TypeScript, visualizing time-series data stored in TimescaleDB and providing device status monitoring capabilities
- Designed system architecture using C4 modeling methodology for both platforms, ensuring scalable deployment across AWS infrastructure
- Delivered end-to-end solutions from concept to production, managing full development lifecycle for both revenue-generating products

Svante Technologies Inc. — Burnaby, Canada

IT Infrastructure Specialist — *February 2022 – Present*

- Architected and managed HPC cluster supporting R&D scientists, including deployment of molecular dynamics software (Fortran/C++), maintaining 99.9% system availability for critical research operations
- Developed Go-based integration between HR software API and Active Directory, automating user provisioning process and reducing onboarding time by 70% while eliminating manual ticket processing
- Implemented CI/CD pipeline in Azure DevOps for NodeJS applications, integrating automated security scanning and reducing deployment time from 2 hours to 15 minutes
- Architected real-time observability platform using TimescaleDB and Grafana for manufacturing test equipment, processing 1000+ data points per second
- Designed and implemented enterprise backup infrastructure using Veeam B&R and Azure blob storage, achieving 100% compliance with 3-2-1-1-0 backup strategy across 10+ critical systems
- Orchestrated migration of physical servers to new VMware infrastructure

New Beta Innovation Ltd. — Burnaby, BC

Help Desk Co-op — *Dec 2020 – Aug 2021, Full-time*

- Developed and implemented PowerShell automation framework for user lifecycle management, reducing account provisioning time by 80% and ensuring consistent security policies across 200+ users
- Architected and documented comprehensive backup strategy compliant with GMP requirements, achieving 100% recovery success rate in quarterly DR tests

Projects

Train Travellers API | BCIT | *GitHub*

- Architected and implemented distributed booking system using microservices architecture, handling 10000+ concurrent requests
- Implemented event-driven architecture using Apache Kafka for async processing, achieving horizontal scalability and <100ms response time for 95th percentile of requests under simulated load
- Designed robust CI/CD pipeline using Jenkins, incorporating automated testing and container security scanning