

# DEEPTANSHU SANGHANI

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## EDUCATION

Bachelor of Computer Science | Sheridan College (GPA: 3.42)

Graduating: 2026

## EXPERIENCE

### Junior Programmer Coop – Ontario Public Services, Treasury Board

Sep 2024 – Aug 2025

- **Led and owned** the end-to-end delivery of an **MFA rollout across 7 portal applications, improving authentication security** by implementing one-time tokens (nonces) and rate limiting in C# / ASP.NET, backed by MySQL, with UI integration via jQuery.
- Collaborated with Solution Architect to create architecture diagrams and sequence diagrams for the Multi-Factor Authentication application, **speeding up implementation by documenting authentication flows and portal integration points**.
- Transitioned customer files storage from database binary objects to Azure Blob Storage by implementing a database schema for file references and updating C# / ASP.NET services (with jQuery UI integration), **reducing database size significantly, improving scalability, and streamlining file retrieval**.
- Created Powershell scripts to **automate scheduled backups** for multiple databases supporting various portal applications, **ensuring data reliability and reducing manual maintenance overhead**.
- **Built and executed 40+ end-to-end automated test cases** for the Tender Management application, **increasing regression coverage and reducing release risk** by using Selenium + C# with a BDD approach (feature files in Gherkin)

### Software Engineer Intern – Intellect Design Arena

May 2024 – Aug 2024

- Developed a monitoring application for CIBC to monitor transactions processed by the payment processing engine (**value - ~\$200 million daily**), **raise alerts for processing failures, transactions exceeding SLAs**, channel-wise volumes processed in the last 15 days using Java(SpringBoot), Angular and MySQL
- Created deployment scripts using Docker for autonomous deployment, **reducing manual release effort** in WebLogic server
- Collaborated with Senior Engineers to develop sequential and architectural design diagrams for the monitoring application, **improving design clarity and speeding up implementation** by documenting key system flows.

## PROJECTS

### Guardian: Python, FASTAPI, LLM, ReactJS, SQLITE, LLAMA

Oct 2023

- Developed a middleware PII scrubber that sanitizes any personal information when a user provides a prompt to another LLM such as ChatGPT.
- Handled and persisted user authentication, authorization and personalized settings using JWTs and SQLite.
- Provided a seamless and interactive UI allowing users to chat with the LLM, manage roles within organizations, save PII keywords /LLM settings.

### Memory Lane: FASTAPI, ReactTS, GCP, Docker, Terraform

Nov 2024

- Built a Digital Memory Album using Google Cloud services, to allow users to sign-up, login and upload / delete / access photos from anywhere
- Deployed backend services on Google Cloud Run and using Google Cloud Functions for dynamic storage management.
- Used Terraform to deploy and manage the application's infrastructure on GCP.

## TECHNICAL SKILLS

### Programming Languages

Python, C#, Java, JavaScript, TypeScript, SQL, Scala

### Frameworks & Tools

Docker, Spark, Hadoop, Terraform, FastAPI, SQLAlchemy, React, Node, SpringBoot, ASP.NET, Spark/Pyspark, Angular, Terraform, Kubernetes, CI/CD

**AWS** (S3, EC2, AppRunner, Lambda, ECR, CloudWatch, Secrets Manager, Amplify, LoadBalancers / AutoScalers)

**GCP** (Cloud Run, Buckets, CloudFunctions, Firestore)