

# DEEP SHAH

+1 (647) 804-3167 | [deepshah0803@gmail.com](mailto:deepshah0803@gmail.com) | [dshah1010](https://www.linkedin.com/in/dshah1010) | [dshah1010](https://github.com/dshah1010) | [dshah](https://dshah.com)

## EDUCATION

### Western University

Sep 2021 – Apr 2026

Bachelor of Science – Honours Specialization in Computer Science | **GPA: 3.7/4.0** | *Dean's List 2022-2023, 2023-2024* | London, ON, Canada

- **Coursework:** Data Structures & Algorithms, Introduction to Software Engineering, Operating Systems, Object-Oriented Design & Analysis, Databases, Project Management for the Sciences, Foundations of Computer Science, Analysis of Algorithms, Computer Organization, Computer Networks, Computer Graphics, Scalable & Robust Distributed Systems

## EXPERIENCE

### TELUS

Sep 2024 – Dec 2024

Incoming Software Engineer Intern

Toronto, ON, Canada

- Enhancing the ETL process and improving data flow efficiency for a capital management tool by using **Python** to integrate **GCP** services

### TELUS

May 2024 – Aug 2024

Product Manager Intern

Toronto, ON, Canada

- Spearheading the development of an efficient process for handling bug requests and new feature requirements for tRAN/oRAN products
- Orchestrating sprint planning and requirement gathering for a capital management tool, integrating scheduling and costs for building sites
- Authoring detailed guides and requirements documentation, ensuring consistent communication and alignment across teams

### Vidyard

Sep 2023 – Dec 2023

Software Developer Intern

Kitchener, ON, Canada

- Increased user retention by 23% and cut monthly support tickets by 30, by revamping the AI-generated video tool with **Vue.js** and **React**
- Reduced deployment time from 1 hour to 15 minutes and saved \$5,000/month in server costs by migrating video processing services from **EC2** to **AWS Lambda**, enabling scalable, event-driven execution that improved overall system efficiency, reducing operational overhead
- Improved test coverage on critical user-facing features by 55%, by implementing effective backend testing using **Jest**, and dropped latency of local API endpoints by 120ms, enhancing UX and system reliability through smoother video playback and quicker user response times

### IPEX

May 2023 – Aug 2023

Software Engineer Intern

Oakville, ON, Canada

- Declined production line stoppages by 37%, by designing a real-time monitoring system using **C#** and **RESTful APIs** to track equipment performance, predict maintenance needs, optimize repair schedules, and enhance overall workflow efficiency
- Saved \$200,000 annually in inventory management costs by building a centralized analytics tool using **React**, **Spring Boot**, and **MySQL**
- Shortened the average build time from 30 to 10 minutes and automated over 50% of manual deployment tasks by streamlining a **CI/CD** pipeline integrating **Jenkins** and **Docker**, resulting in more reliable software releases for the pipeline inspection and maintenance system

### Project: Human City

Jan 2023 – Apr 2023

Software Engineer Intern

Toronto, ON, Canada

- Structured an AR app using **Angular** and **Three.js**, allowing users to visualize and adjust projects by placing objects in a real-world environment, including real-time object manipulation, scaling, and rotation to permit precise and realistic project planning
- Decreased initial load time by 10 seconds by integrating **Redis** for caching and optimizing asset management with **AWS S3**
- Formulated a microservice architecture using **Kubernetes**, creating fault-tolerant services and setting up automated deployment pipelines and monitoring systems, amplifying the platform's ability to handle up to 3,500 concurrent users without performance degradation

### Western Developers Society

Oct 2022 – Mar 2023

Software Developer

London, ON, Canada

- Achieved a smoother competition process by developing a dynamic website with **TypeScript** and **React** for 300+ participants
- Revitalized data management by implementing a **GraphQL** API, handling 1,000 queries/day with seamless front-end integration
- Boosted community engagement by creating custom Discord bots with **Python** and **discord.py**, automating event notifications

## PROJECTS

### Navigator 🗺️

- Developed a **Java** app with **Swing GUI** to enable users to search and explore interior spaces faster, using **Agile** methodologies
- Reinforced data interoperability with **JSON** and obtained 100% test coverage by writing 75+ unit/integration tests with **JUnit**
- Integrated advanced search algorithms, such as binary search and depth-first search, to streamline the search process

### Pilluminate 🌟

- Engineered a **C++** application with **Qt** framework to control LEDs, adding features to allow users to add, remove, change colors, and set blinking speed and duration, amplifying interaction with dynamic lighting effects and handling numerous user commands
- Utilized the MVC pattern to separate concerns, enhancing code maintainability and app scalability, and facilitating easier feature updates
- Generated robust user terminal feedback mechanisms, ensuring real-time updates and improved user experience during LED manipulation

## SKILLS

**Languages:** C, C++, CSS, GraphQL, HTML, Java, JavaScript, Python, R, SQL, TypeScript

**Frameworks/Libraries:** Angular, Jest, React, Qt, Spring Boot, Vue.js

**Tools:** AWS, Bitbucket, Confluence, Docker, GCP, Git, GitHub, Jenkins, Jira, Kubernetes, MySQL, Unix

**Concepts:** Agile, Backend, Business Strategy, Data Analysis, Databases, DevOps, Frontend, Fullstack, Kanban, Market Trends, Product Management, Software Engineering, Success Metrics, Waterfall, Web Frameworks