

# DEEP SHAH

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## EDUCATION

### Western University

September 2021 – April 2025

Bachelor of Science - **Computer Science** | CGPA: **3.5/4.0** | Dean's List 2022-2023

London, Ontario, Canada

- Advanced Entry Opportunity (AEO) to the **Richard Ivey Business School of Western**
- Western Scholarship of Distinction (**\$2,500**)
- **Relevant Courses:** Computer Science Fundamentals I & II, Data Structures and Algorithms, Software Tools and Systems Programming, Discrete Structures for Computing, Introduction to Computer Organization and Architecture, Introduction to Software Engineering
- **Certifications:** Relational Database and SQL Essentials (Amigoscode), React - The Complete Guide (Udemy), Master the Coding Interview: Data Structures + Algorithms (Udemy)

## SKILLS

**Languages:** Assembly, C, C#, CSS, HTML, Java, JavaScript, LaTeX, Python, SQL

**Frameworks/Libraries:** .NET, Bootstrap, Django, Flask, JUnit, Next.js, Node.js, React, React Native

**Development Tools:** Bitbucket, Confluence, Eclipse, Git, GitHub, Jira, Maven, Microsoft Azure, MongoDB, PostgreSQL, PyCharm, ServiceNow, Unity, Unix, Visual Studio

**Software:** Adobe Illustrator, Adobe Photoshop, Affinity Photo, Apple iMovie, Audacity, Microsoft Excel, Microsoft Outlook, Microsoft PowerPoint, Microsoft Teams, Microsoft Word, SharePoint

**Other:** Communication (Verbal & Written), Creative, Critical Thinking, Detail-Oriented, Independent, Organization, Problem Solving, Teamwork, Time Management

## EXPERIENCE

### IPEX

May 2023 – August 2023

System Analyst Developer Intern

Oakville, Ontario, Canada

- Producing an inventory adjustment system with **C#**, **.NET**, and the **SQL Server**
- Constructing a web application with **Next.js**, **Node.js**, and **Azure AI** to prioritize and solve issues submitted by employees through a **GPT** process
- Developing a new controller on the **Azure DevOps** platform to manage a windows service/form with **C#** and **.NET**, with the integration of **MVC**, **strategy**, and **facade** patterns

### Project: Human City

January 2023 – April 2023

Software Engineer Intern

Toronto, Ontario, Canada

- Built a mobile application with **React Native** and **Unity (C#)** that uses physical and digital space through an **AR** lens feature, increasing user productivity by **17%** when creating projects
- Used **three.js** with the **YOLO** and **CNN** models for a **44%** increased accuracy when detecting objects and gestures
- Reduced server costs by **80%** through restructuring to use serverless functions with **MongoDB**
- Engineered **CI/CD** pipelines to automatically deploy **Git** branches, reducing deployment process by **50%**

### Western Developers Society

October 2022 – March 2023

Software Developer

London, Ontario, Canada

- Introduced a software development competition called Western Developers League involving **300+** students
- Refactored **React** codebase to optimize website UI performance by **15%** through code splitting and memoization
- Implemented discord bots with **Python**, running the event **23%** more efficiently

### Castlebrooke Secondary School Computer Science Club

December 2019 – June 2021

Co-Founder

Brampton, Ontario, Canada

- Supervised and conducted **25+** weekly **Python** lessons/workshops for **100+** students
- Led the school's first hackathon and other coding competitions to prepare for UWaterloo's CCC
- Saved **65%** (**\$1.2k**) of the annual budget by finding free alternatives to paid resources and running competitions/meetings virtually

## PROJECTS

### Navigator | Java, Java Swing, JSON, JUnit

- Applied **Agile** methodologies to develop a **Java** application with the **Swing** GUI, leveraging the maps available by Western University to allow users to search and explore its interior spaces **11%** faster
- Utilized **JSON** to store map metadata locally to increase usefulness for data exchange between heterogeneous systems
- Wrote **75+** extensive unit/integration tests with **JUnit**, reaching **100%** test coverage