

# DEEP SHAH

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## EDUCATION

### Western University

Sep 2021 - Apr 2025

Bachelor of Science - **Honours Specialization in Computer Science** | CGPA: 3.45/4.00

London, ON

- **Relevant Courses:** Computer Science Fundamentals I & II, Data Structures and Algorithms, Software Tools and Systems Programming, Discrete Structures for Computing, Introduction to Software Engineering

## SKILLS

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

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

**Development Tools:** Git, MongoDB, Unity, VS Code, PyCharm, Eclipse, Confluence, Jira, Bitbucket, GitHub, Unix

## EXPERIENCE

### IPEX

May 2023

Systems Analyst Intern

Oakville, ON

- Incoming Systems Analyst Intern reporting to the Information Technology Department

### Project: Human City

Jan 2023 - Present

Software Engineering Intern

Toronto, ON

- Building a mobile application with **React Native** and **Unity (C#)** that uses physical and digital space through an **Augmented Reality** lens feature, which is projected to increase user productivity by **17%** when creating projects
- Applying **three.js** with the **YOLO** and **Convolutional Neural Networks** models for a **44%** increased accuracy when detecting objects and gestures
- Storing AR elements and project layouts in **MongoDB** for **quick scalability**

### Western Developer's Society

Oct 2022 - Mar 2023

Software Developer

London, ON

- Introduced a **software development competition** called **Western Developers League** involving **300+** students
- Designed a website with an interactive user interface using **React.js** to **maximize user activity experience**
- Implemented discord bots with **Python**, running the event **23%** more efficiently

### Castlebrooke Secondary School Computer Science Club

Dec 2019 - Jun 2021

Co-Founder

Brampton, ON

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

## PROJECTS

### Navigator 🗺 | Java, JUnit

Jan 2023 - Present

- Using **Agile methodologies** to develop a **Java** application with the **Java Swing** graphical user interface that leverages the maps available by Western University to allow users to search and explore its interior spaces **11%** faster
- Employing **Confluence** for design work/diagrams and tracking code tasks/issues with **Jira** for **boosted organization**
- Utilizing **JSON** to store map metadata locally to increase usefulness for **data exchange** between **heterogeneous systems**
- Writing extensive unit and integration tests using **JUnit**, accelerating programming speed and increasing code quality by **31%**

### MyFinance 📊 | Python, Flask, JavaScript, React Native, MongoDB

Nov 2022 - Present

- Creating a **budget visualizer** mobile application with **React Native** to keep track of the difference between income and expenses, saving users **2+** hours/month
- Hosting a **Flask** back-end server handling **GET/POST requests** to receive the input data and display it **graphically**
- Pushing user data into **MongoDB** to achieve a performance improvement of **19%**

### Listify 📝 | HTML, CSS, JavaScript

Aug 2022

- Developed a **CRUD** chrome extension with **JavaScript** to manage day-to-day tasks
- Integrated **JSON** to save processes in **local storage** for a **9%** spike in coherency