

# DEEP SHAH

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## EDUCATION

### Western University

Sep 2021 - Apr 2025

Bachelor of Science - **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 Computer Organization and Architecture, Introduction to Software Engineering

## SKILLS

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

**Frameworks/Libraries:** Flask, Django, React.js, React Native, JUnit, Bootstrap, Catch2

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

## WORK EXPERIENCE

### IPEX

May 2023

Software Developer Intern

Oakville, ON

- Incoming Software Developer Intern reporting to the Information Technology Department

### DesignBot

Mar 2023 - Present

Data Engineer Intern

Montreal, QC

- Establishing a system that takes SVG files and alters its parameters with **C++**
- Performing unit testing to catch bugs **14%** quicker through **Catch2**

### Project: Human City

Jan 2023 - Feb 2023

Software Engineer Intern

Toronto, ON

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

## EXTRACURRICULAR EXPERIENCE

### 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

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

- 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%**

### Navigator | Java, JUnit

- Used **Agile** methodologies to develop a **Java** application with the **Java Swing** graphical user interface that leveraged 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 extensive unit and integration tests using **JUnit**, accelerating programming speed and increasing code quality by **31%**