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: Bootstrap, Django, Flask, JUnit, React, React Native
Development Tools: AWS, Bitbucket, Confluence, Docker, Eclipse, Git, GitHub, Jira, Maven, Microsoft Visual Studio Code, MongoDB, PostgreSQL, PyCharm, ServiceNow, Unity, Unix
Software: Adobe Illustrator, Adobe Photoshop, Affinity Photo, Apple iMovie, Audacity, Microsoft Office (Excel, Outlook, PowerPoint, SharePoint, Teams, Word)
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*
- Reporting to the IT department
- Working with **C#**, **.NET**, and the **SQL Server**

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 Developer's 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

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

Navigator 🔗 | *Java, 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