# Deep Shah

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## EDUCATION

**Western University**                                  **Expected Graduation: April 2026**

*Bachelor of Science (BSc) - Honours Specialization in Computer Science*             *London, ON*

- Advanced Entry Opportunity to Richard **Ivey** Business School (*Honours Business Administration*) – **8.5%** Acceptance Rate
- **Relevant Coursework:** Introduction to Software Engineering, Data Structures & Algorithms, Operating Systems, Object-Oriented Design & Analysis, Project Management, Databases, Computer Graphics, Distributed Systems

## WORK EXPERIENCE

**TELUS**                                               **May 2024 – Dec 2024**

*Software Engineer Intern*                                          *Toronto, ON*

- Architected a financial reporting automation tool using a **Go**-based **ETL GCP** pipeline, consolidating revenue data from regional divisions and reducing the reporting cycle from **5 days** to **15 hours** while improving data accuracy
- Engineered a **Node.js**-powered security audit tool to analyze network access configurations, identifying and resolving **237 misconfigurations** across critical infrastructure and safeguarding **50,000+ user accounts** from breaches
- Automated regression testing workflows through a **Python**-based testing framework integrated with **Generative AI** and **LLM** services, identifying **87 critical bugs** over **5 releases** and cutting manual testing time by **45%**

**Vidyard**                                               **Sep 2023 – Dec 2023**

*Software Engineer Intern*                                          *Kitchener, ON*

- Optimized an **AI**-driven video generation platform with **Vue.js** and **React**, fixing browser extension bugs and using **machine learning** to enhance audio transcription accuracy, streamlining workflows for clients by **35%**
- Transitioned deployment pipelines by migrating from **EC2** to **AWS Lambda**, reducing deployment times from **57** to **14 minutes** and cutting operational costs by **$4,700/month**, improving budget efficiency for cloud resources
- Implemented a **Ruby on Rails**-based encryption service to protect over **9,200 video assets**, reducing unauthorized access incidents by **18%** and containerizing with **Docker** to enhance scalability, trust, and security

**IPEX**                                                **May 2023 – Aug 2023**

*Software Engineer Intern*                                          *Oakville, ON*

- Designed a real-time equipment monitoring system using **Python** and **RESTful APIs**, reducing downtime by **14.7%** with proactive maintenance alerts and enabling detailed cost analysis for optimized financial planning
- Developed a **TypeScript**-based **command-line** application to monitor and secure IoT manufacturing equipment, integrating a **Jenkins CI/CD** pipeline to streamline updates and resolve **83 access inconsistencies/month**
- Revamped inventory management with a **React**, **Node.js**, **Kubernetes**, and **PostgreSQL**-based analytics system, enabling real-time tracking across multiple warehouses and saving **$132,000 annually** in reduced overstock costs

## PROJECTS

**Pilluminate**                                          **Jan 2024 – Apr 2024**

- Built a **C++** LED control app using **OOP** principles for real-time color, speed, and brightness adjustments
- Formulated an **MVC** architecture to decouple input, logic, and hardware, reducing debugging time by **40%**
- Integrated **multithreading** to ensure responsive LED updates and smooth user experience under high load

**Navigator**                                             **Jan 2023 – Apr 2023**

- Created a **Java** campus navigation tool with **Swing GUI**, helping **1,200+** students locate resources efficiently
- Incorporated **JSON APIs** for real-time synchronization, processing over **8,500 queries daily** with high accuracy
- Refined search with **binary search** and **A\* pathfinding**, reducing query times by **62%** to under **250ms**

## SKILLS

**Programming Languages**: Python, Java, JavaScript, C/C++, Go, TypeScript, Ruby, SQL, HTML/CSS, R
**Frameworks/Libraries**: React, Node.js, Ruby on Rails, Jest, JUnit
**Development Tools**: Amazon Web Services (AWS), Git, GitHub, Google Cloud Platform (GCP), PostgreSQL, Kubernetes, Docker, Jenkins, JIRA, Confluence, Visual Studio (VS) Code, Postman
**Concepts/Interests**: Agile, Artificial Intelligence (AI), Back-end, Cloud Computing, Containerization, Databases, Design, DevOps, Finance/Fintech, Front-end, Full stack, Machine Learning (ML), Microservice Architectures, Networks, Product Management, Security, Scrum, Software Development Life Cycle (SDLC), Systems Engineering, Testing, Web