DEEP SHAH

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EDUCATION

Western University   **Sep 2021 – Dec 2025**
*Bachelor of Science – Honours Specialization in Computer Science | **GPA:** 3.7/4.0 | Dean's List 2022-2023, 2023-2024*   London, ON, Canada
- **Coursework:** Data Science Concepts, Linear Algebra, Introduction to Computer Organization and Architecture, Data Structures and Algorithms, Software Tools and Systems Programming, Introduction to Software Engineering, Discrete Structures for Computing, Operating Systems, Object-Oriented Design and Analysis, Databases I, Project Management for the Sciences

EXPERIENCE

TELUS   **May 2024 – Present**
Product Manager Intern   *Toronto, ON, Canada*
- Collaborating with teams to develop oRAN features via **Appian**, managing **Jira** tickets, and writing detailed guides and requirements docs
- Creating strategies for 4G (LTE) and 5G NR technologies, considering vendors, bands, coverage types, and leading scrum meetings
- Enabling operators to mix and match hardware and software, minimizing vendor lock-in, and fostering innovation with automation

Vidyard   **Sep 2023 – Dec 2023**
Software Developer Intern   *Kitchener, ON, Canada*
- Increased user retention by 23% and cut monthly support tickets by 30, by revamping the AI-generated video tool with **Vue.js** and **React**
- Reduced deployment time from 1 hour to 15 minutes and saved $5,000/month in server costs by migrating video processing services from **EC2** to **AWS Lambda**, enabling scalable, event-driven execution that improved overall system efficiency, reducing operational overhead
- Improved test coverage on critical user-facing features by 55%, by implementing effective backend testing using **Jest**, and dropped latency of local API endpoints by 120ms, enhancing UX and system reliability through smoother video playback and quicker user response times

IPEX   **May 2023 – Aug 2023**
Software Engineer Intern   *Oakville, ON, Canada*
- Declined production line stoppages by 37%, by designing a real-time monitoring system using **Python** and **RESTful APIs** to track equipment performance, predict maintenance needs, optimize repair schedules, and enhance overall workflow efficiency
- Saved $200,000 annually in inventory management costs by building a centralized analytics tool using **React**, **Spring Boot**, and **MySQL**
- Shortened the average build time from 30 to 10 minutes and automated over 50% of manual deployment tasks by streamlining a **CI/CD** pipeline integrating **Jenkins** and **Docker**, resulting in more reliable software releases for the pipeline inspection and maintenance system

Project: Human City   **Jan 2023 – Apr 2023**
Software Engineer Intern   *Toronto, ON, Canada*
- Structured an AR app using **Angular** and **Three.js**, allowing users to visualize and adjust projects by placing objects in a real-world environment, including real-time object manipulation, scaling, and rotation to permit precise and realistic project planning
- Decreased initial load time by 10 seconds by integrating **Redis** for caching and optimizing asset management with **AWS S3**
- Formulated a microservice architecture using **Kubernetes**, creating fault-tolerant services and setting up automated deployment pipelines and monitoring systems, amplifying the platform's ability to handle up to 3,500 concurrent users without performance degradation

Western Developers Society   **Oct 2022 – Mar 2023**
Software Developer   *London, ON, Canada*
- Achieved a smoother competition process by developing a dynamic website with **TypeScript** and **React** for 300+ participants
- Revitalized data management by implementing a **GraphQL** API, handling 1,000 queries/day with seamless front-end integration
- Boosted community engagement by creating custom Discord bots with **Python** and **discord.py**, automating event notifications

PROJECTS

Navigator ⭘
- Developed a **Java** app with **Swing GUI** to enable users to search and explore interior spaces faster, using **Agile** methodologies
- Reinforced data interoperability with **JSON** and obtained 100% test coverage by writing 75+ unit/integration tests with **JUnit**
- Integrated advanced search algorithms, such as binary search and depth-first search, to streamline the search process

Pilluminate ⭘
- Engineered a **C++** application with **QT** framework to control LEDs, adding features to allow users to add, remove, change colors, and set blinking speed and duration, amplifying interaction with dynamic lighting effects and handling numerous user commands
- Utilized the MVC pattern to separate concerns, enhancing code maintainability and app scalability, and facilitating easier feature updates
- Generated robust user terminal feedback mechanisms, ensuring real-time updates and improved user experience during LED manipulation

SKILLS

Languages: C, C++, CSS, GraphQL, HTML, Java, JavaScript, Python, SQL, TypeScript
Frameworks/Libraries: Angular, Jest, React, QT, Spring Boot, Vue.js
Tools: Appian, AWS, Bitbucket, Confluence, Docker, Git, GitHub, Jenkins, Jira, Kubernetes, MySQL, Unix
Concepts: Agile, Backend, Business Strategy, Data Analysis, Databases, DevOps, Frontend, Fullstack, Kanban, Market Trends, Product Management, Software Engineering, Success Metrics, Waterfall, Web Frameworks