

AVNEET SINGH

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Education

The University of Toledo: College of Engineering

Anticipated Graduation Date: May 2026

Bachelor of Science: Computer Science and Engineering

Dean's List: Spring 2023, Spring 2024

Experience

The University of Toledo: College of Engineering

October 2023 - Present

IT Administrator

Toledo, Ohio

- Provided technical support to 500+ users by installing and configuring desktops and laptops across the engineering department.
- Configured and maintained Windows/Linux environments, automated routine admin tasks with scripts, and applied security patches to ensure reliable and secure system operations.

KPIT Technologies Limited

June 2025 - August 2025

Systems Engineer Intern

Novi, Michigan

- Developed Python-based communication interfaces for Device Under Test (DUT) systems, enabling real-time power mode control and status monitoring.
- Contributed to a scalable middleware activation-response library by implementing argument parsing, robust error handling, and modular structures..
- Collaborated with team members using Git for version control, branching, and task management, ensuring smooth project integration.

KPIT Technologies Limited

June 2024 - August 2024

Software Engineer Intern

Novi, Michigan

- Built automated tools using Python (Pandas, PyQt5) to generate middleware configuration reports, reducing manual tracking of ECU states by 70%.
- Developed and validated data integration workflows for ECU activation/deactivation logic, improving diagnostic accuracy and supporting OEM middleware standards.

Softage Information Technology Limited

June 2023 - July 2023

Web Developer Intern

Gurugram, India

- Developed a responsive full-stack web application using Django, HTML, CSS, JavaScript, and Python, managing both frontend and backend functionality.
- Integrated full-stack features in Django with optimized backend queries, improving performance and scalability of the web application by 20%.

Projects

RAG OpenPDF AI ChatBot | *FastAPI, React, LangChain, OpenAI, FAISS*

August 2025

- Developed a full-stack AI tool enabling users to chat with uploaded PDFs via natural language queries using OpenAI and LangChain.
- Engineered backend with FastAPI, using FAISS for vector search and React (Vite) + Tailwind CSS for the frontend.

Network Report Generation Tool | *Python, PyQt5, Pandas*

August 2024

- Built a user-friendly GUI tool to automate middleware configuration reporting and ECU state tracking.
- Streamlined diagnostic processes and significantly reduced manual reporting time by 70%.

Multiplayer Roblox Game Development | *Lua, Roblox Studio*

November 2023

- Implemented scalable client-server game logic in Lua, ensuring synchronized multiplayer interactions and maintainable code structure.
- Developed interactive UI and real-time feedback systems to improve player experience and engagement.

Technical Skills

Languages: Python, Java, C, JavaScript, SQL, Lua, HTML/CSS

Frameworks and Libraries: Django, React, Node.js, PyQt5, Tkinter, Tailwind CSS, NumPy, OpenCV, Scapy, LangChain, FastAPI

AI and RAG Tools: OpenAI API, FAISS, Embedding Models, Retrieval-Augmented Generation (RAG)

Tools and Platforms: Git, GitHub, GitLab, VS Code, Visual Studio, Eclipse, PyCharm, PowerShell, Docker

Cloud and Databases: Azure, MySQL, MongoDB, SQL Server Management Studio (SSMS)