

Shayan Manoharan

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EDUCATION

The Ohio State University

Columbus, Ohio

Bachelor of Science in Computer Science and Engineering | GPA: 3.9/4.0 | Expected Graduation: May 2027

- **Relevant Coursework:** Software Development and Design, Data Structures and Algorithms, Software Components, Discrete Structures, Programming Java, Low-Level Programming, Statistics for Engineers, Engineering Calculus

SKILLS

Programming: Python, JavaScript, TypeScript, Java, C, Swift, SQL, MATLAB, R, XML, x86 Assembly

Frameworks/Technologies: React, Vue.js, Node.js, Firebase, Django HTML, Tailwind CSS, Three.js, Pandas

Developer Tools: Git, Fork, Xcode, Visual Studio Code, Linux, JUnit, Eclipse, SVN

WORK EXPERIENCE

WillowTree, A TELUS Digital Company

Columbus, Ohio

Software Engineer Intern

May 2025 – Present

- **Integrated live Radar SDK across 4,300+ stores** in Swift to boost real-time location accuracy and app reliability
- Spearheaded a “Favorite Order” feature to **improve repeat order flow efficiency by 30% for over 2 million users**

Lighthouse Avionics

Columbus, Ohio

Software Development Intern

May 2024 –

August 2024

- Developed an API-integrated query page, **accelerating detection and classification by 84%** using Vue.js
- Designed a responsive, low-latency UI using WebSocket and CSRF token handling for secure data communication
- **Reduced system overheating by over 60%** through an intelligent, multi-mode temperature control system featuring automated and manual heating/cooling logic

PROJECT EXPERIENCE

Future Map | React, Node.js, TypeScript, MongoDB, OpenAI API

March 2025

- Developed an **AI-powered academic planning tool targeting 3.7M+ students** facing post-graduation uncertainty
- Built a **personalized recommendation engine using OpenAI** to boost student engagement, generating 5+ dynamic content module (majors, programs, certifications, etc.) displayed on a real-time interactive dashboard

PharmaGo | React Native, Expo, Figma, Visual Studio Code, Git

September 2024

- Engineering a cross-platform app for to **expand pharmaceutical access by 25%** for immobile patients
- Utilized React Native and **Google Maps API kit to create a user-friendly interface** with large buttons, real-time navigation to allow elderly users to confidently navigate unfamiliar technology with ease
- Implemented secure trust and certification system to ensure secure, verified delivery of prescription medications

Personal Portfolio Website | React, JavaScript, Tailwind CSS, Three.js, Visual Studio Code

August 2024

- Built a responsive portfolio website showcasing my projects, technical skills, and experiences using React
- Enhanced screen-size responsiveness using Tailwind CSS grid systems for seamless compatibility across all devices
- Integrated interactive 3D components using Three.js to create an engaging and visually dynamic user experience

AWARDS AND ACTIVITIES

Dean's List: Ohio State College of Engineering – 4x recipient

December 2023 – Present

Big Data Analytics Association - Project Leader

December 2023 – Present

- Led a public health data project, collaborating with peers to uncover and visualize key trends using Python, Pandas, and Matplotlib
- Applied statistical analysis and data visualization techniques to derive insights from large-scale datasets
- Participated in weekly technical workshops covering Python for data analysis, SQL, and data storytelling fundamentals
- Engaged with guest speakers and hands-on sessions to explore real-world applications of data analytics across industries