

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

Languages: Python, Java, JavaScript, TypeScript, C++, C#, Swift, CSS, SQL, HTML, XML, x86 Assembly

Frameworks/Technologies: React.js, Node.js, Vue.js, Django, Firebase, Spring Boot, GraphQL, Three.js, Pandas

Developer Tools: Linux, Git, GitHub, VS Code, Xcode, Eclipse, Jira, Agile, Figma, SVN, Fork

WORK EXPERIENCE

WillowTree, A TELUS Digital Company

Columbus, Ohio

Software Engineer Intern

May 2025 – Present

- **Integrated live Radar SDK in Swift across 4,500+ stores** to boost real-time location accuracy and app stability
- Spearheaded “Favorite Order” feature that **improved repeat flow efficiency by 30% for 41M+ lifetime users**
- **Boosted order analytics visibility by 15%** through Segment tracking, supporting insights across 9M+ active users
- Refactored resolvers in C# and updated GraphQL endpoints to support BFF tokens, improving backend reliability for 497K+ daily users and increasing test coverage

Lighthouse Avionics

Columbus, Ohio

Software Development Intern

May 2024 – August 2024

- Developed an API-integrated query page, **accelerating detection and classification data 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-driven academic planner targeting 3.7M+ students** facing post-graduation uncertainty
- Engineered a **personalized recommendation engine using OpenAI** to boost student engagement, generating 5+ dynamic content modules (e.g., majors, programs, certifications) displayed on a real-time interactive dashboard

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

September 2024

- Crafted a cross-platform app 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, and real-time navigation enabling elderly users to confidently interact with unfamiliar technology
- Implemented a secure trust and certification system to ensure verified delivery of prescription medications

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

August 2024

- Deployed 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

LEADERSHIP AND AWARDS

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 study, 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