

# DANIEL MARC D'SOUZA

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## EDUCATION

**Pennsylvania State University** | B.S. in Computer Science

**May 2025**

### Relevant Coursework:

Computer Organization and Architecture, Programming and Computation II: Data Structures, Net-Centric Computing, Object Oriented Programming with Web-Based Applications

## WORK EXPERIENCE

**Software Developer Intern** | EG India | Mangaluru, KA, India

**July 2024 - Aug 2024**

- **Collaborated** with cross-functional team to **design** and **implement** dynamic table component, **enhancing** user experience and data visualization for AI chatbot application
- **Contributed** to front-end development using Python, React and Tailwind, **resulting** in responsive and interactive user interface
- **Integrated** AI functionalities, **ensuring** seamless communication between chatbot and user inputs
- **Authored** and **maintained** documentation for components and workflows, **facilitating** knowledge transfer and onboarding for future developers

## PROJECTS

**Hustle** | Capstone Project

**Jan 2025 - May 2025**

- **Built** mobile app (iOS/Android) for posting and completing quick-gig jobs with secure authentication, job filters, and AWS S3 image uploads in React Native, winning 1st place in Penn State Harrisburg's 2025 Capstone Design Conference for the Department of Computer Science
- **Enabled** real-time sync of job status, messaging, and transactions across clients using socket communication
- **Reduced** LLM token retention by 10-18% via NLP-based prompt optimization, **improving** API speed and cost efficiency

**AI Chatbot** | EG India

**July 2024 - Aug 2024**

- **Developed** AI chatbot project, **enhancing** user interaction and support for diverse user base
- **Created** dynamic table component, **improving** data presentation and accessibility for users
- **Implemented** front-end features using React, **optimizing** performance and user experience

**Electronic Visit Verification (EVV) Platform** | App Development

**Jan 2024 - May 2024**

- **Developed** a HIPAA-compliant Electronic Visit Verification (EVV) platform tailored for home healthcare providers, ensuring alignment with **state and federal Medicaid** regulations.
- **Integrated** core compliance features including **geofencing**, **timestamp validation**, **caregiver authentication**, and **audit-ready documentation**, supporting compatibility with third-party aggregators (e.g., **Sandata**).
- **Engineered** offline access, **real-time data sync**, and robust data integrity safeguards to ensure caregiver usability and regulatory reliability in both connected and disconnected environments.

## SKILLS

**Programming Languages:** JavaScript/TypeScript, Python, C++, Java

**Frameworks & Technologies:** HTML, CSS, React, NextJS, Tailwind, tRPC, Bootstrap, React Native, NodeJS

**Tools & Databases:** Git, GitHub, VSCode, Figma, Oracle, Docker, MySQL, Firebase, AWS S3, Supabase

**Certifications:** Google IT Support Professional Certificate, Google IT Automation with Python Professional Certificate, IBM Data Science Professional Certificate, Red Cross CPR/First Aid/AED

## EXTRACURRICULAR ACTIVITIES

**Model United Nations:** Participated in five MUNs, **earned "Best Delegate" title**, **demonstrating** leadership and diplomatic skills

**Chess Tournaments:** **Competed** internationally, **developed** strategic thinking and problem-solving abilities

**Public Speaking:** **Participated** in state-level debates, elocutions, and "Pick and Speak" contests, **strengthening** communication skills