

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, Artificial Intelligence

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