

DANIEL MARC D'SOUZA

F1 VISA (Post-OPT)

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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, enabling 30% faster 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 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 with React and Tailwind, improving data presentation and accessibility by 25%
- Implemented front-end features using React, boosting performance and reducing load times by 18%

Electronic Visit Verification (EVV) Platform | App Development

May 2025 - Sep 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

May 2015 - May 2019

Participated in five MUNs, earned "Best Delegate" title, demonstrating leadership and diplomatic skills

Chess Tournaments

March 2009 - Aug 2017

Competed internationally, developed strategic thinking and problem-solving abilities

Public Speaking

March 2014 - Aug 2019

Contended in state-level debates, elocutions, and "Pick and Speak" contests, strengthening communication skills