FNU Bharat

Software & Data Engineer — Python, AWS, SQL, React

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SUMMARY

Software Engineer with a focus on data-driven and AI-powered solutions. Experience in full-stack development, IoT systems, and currently building interactive ML applications for AEC sector at ARK Infosolutions. Proficient in Python, SQL, React, Unity, and cloud platforms (AWS, Firebase, Azure, GCP). B.S. in Computer Science, UToledo, May 2025.

EDUCATION

The University of Toledo   Graduation – May 2025

Bachelor of Science in Computer Science & Engineering   *Toledo, OH*

EXPERIENCE

AI/ML Developer Intern   May 2025 – Present

ARK Infosolutions Pvt. Ltd.   *Remote*
– Spearheading the design and development of interactive AI/ML applications in Unity for the AEC sector, leveraging my own concepts and technical solutions
– Integrating machine learning models into Unity-based 3D/VR experiences and connecting with cloud data sources.
– **Tech stack:** Unity, C#, Python, ML Integration, AR/VR

Undergraduate Research Assistant   May 2024 – Dec. 2024

The University of Toledo   *Toledo, OH*
– Designed a real-time health monitoring system using ESP32 sensors, deployed results via Blynk IoT platform to enable remote data access for 100+ users.
– Improved data accuracy by 25% by implementing sensor fusion algorithms for BME688 and BMI270.
– Documented IoT device architecture, including hardware specifications, reducing future prototyping time by 40%.
– **Tech stack:** ESP32, BME688, BMI270, Pulse Sensor, Blynk, IoT Architecture, Sensor Integration

Azure Active Directory Intern   June 2023 – Aug. 2023

Park Place Technologies   *Remote*
– Integrated Microsoft Azure APIs with third-party apps and external security vendors, streamlining identity workflows and reducing integration time by 30%.
– Collaborated with the Azure Active Directory team to enhance security automation and ensure compliance with identity access protocols.
– **Tech stack:** Microsoft Azure, Azure API, Identity Management, Security Integration

PROJECTS

BiteBot | *Swift, DialogFlow, Firebase, GCP, Firestore* [GitHub]   Jan. 2025 – May 2025
– Built iOS app using DialogFlow chatbot and Google Places API, achieving 85% accurate restaurant recommendations; deployed backend services on Google Cloud Platform for secure and scalable operations.
– Connected real-time weather and location data to deliver context-aware restaurant suggestions, integrating multiple APIs and managing backend workflows on GCP.

CrePI – Credit Score Predictor | *React, PostgreSQL, Python (scikit-learn), AWS EC2* [GitHub]   Mar. 2025
– Built a full-stack ML web app that predicts credit scores with 90% accuracy using a logistic regression model.
– Deployed the backend on AWS EC2 using FastAPI and implemented frontend in React for user interaction.
– Created PostgreSQL-backed dashboards for visualizing predictions and recommending credit-building strategies.

Intelligent Agent Escalation Platform | *React, Python, OpenAI API* [GitHub]   Apr. 2025
– Built a real-time AI phone agent using OpenAI's GPT-4 to automate first-level customer support.
– Reduced average call resolution time by 45% and integrated Firebase for dynamic updates and escalations.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, Swift, Java, C++, C#
Frameworks/Platforms: React, Node.js, FastAPI, Unity, AWS (EC2, S3), GCP, Firebase, Tableau
Data/AI Tools: Pandas, NumPy, scikit-learn, Power BI, OpenAI API, Cursor AI, Replit, Bolt.new
Other: Git, Docker, Blynk, ESP32, AR/VR, ML Integration