




FNU Bharat

Software & Data Engineer — Python, C#, .NET, AWS, React

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SUMMARY

Versatile Software and Data Engineer skilled in building scalable full-stack applications, AI-driven systems, and cloud-integrated platforms. Experience spans real-time IoT monitoring, machine learning deployment, and interactive 3D/VR tools. Delivered production-ready solutions using Python, SQL, React, C#, .NET, and various cloud platforms.

EDUCATION

The University of Toledo

Bachelor of Science in Computer Science & Engineering

Graduation – August 2025

Toledo, OH

EXPERIENCE

AI/ML Developer Intern

ARK Infosolutions Pvt. Ltd.

May 2025 – Present

Remote

- Designed and developed a 3D AI Interview Coach in Unity, integrating OpenAI GPT for dialogue, Azure Speech Services for real-time voice interaction, and C#/.NET for backend logic
- Built immersive, voice-interactive interview simulations for VR/desktop platforms, connecting resume and job description inputs to generate personalized interview experiences
- **Tech stack:** Unity, C#, .NET, OpenAI API, Azure Speech, Python, VR Integration, REST APIs

Undergraduate Research Assistant

The University of Toledo

May 2024 – Dec. 2024

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

Park Place Technologies

June 2023 – Aug. 2023

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 an iOS app using DialogFlow and Google Places API for 85% accurate restaurant recommendations; deployed scalable backend on GCP.
- Integrated real-time weather and location data to deliver context-aware suggestions using multiple third-party APIs.

CrePI – Credit Score Predictor | *React, Python (Scikit-learn), FastAPI, 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.

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, C#, Java, C++

Frameworks/Platforms: .NET, React, Node.js, FastAPI, Unity, Flask, Express.js

Cloud/DevOps: AWS (EC2, S3, Lambda), Azure, GCP, Firebase, Docker, Git

Data/AI Tools: Pandas, NumPy, Scikit-learn, PyTorch, TensorFlow, Spark, Hadoop

Other: REST APIs, Postman, Redis, Kafka, ESP32, AR/VR, ML Integration