

Amit Gupta

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SUMMARY

Software Engineer with over two years of experience in Python, React, Javascript, and API design. Skilled in building scalable, production-grade applications and passionate about maintaining clean, efficient code. Effective communicator with a proven track record of working in cross-functional teams to deliver impactful solutions.

EDUCATION

University of Texas at Arlington, M.S Computer Science

August 2022 - May 2024

Relevant Coursework: Artificial Intelligence, Software Engineering, Machine Learning, Natural Language Processing

EXPERIENCE

Software Engineer, Health Data Science Lab, Arlington, TX

July 2024 – Present

- Migrated the lab's website from Jekyll to React by optimizing rendering and static asset handling, improving load times by 25%
- Utilized Tailwind, Three.js, Framer, Ant-D to create a user-centric, responsive design optimized for performance and accessibility.
- Constructing an AI-powered VR application utilizing Reality Composer Pro for 3D asset creation and SwiftUI for integration.
- Set up GitHub for version control, streamlined CI/CD using GitHub Actions, automating website deployment on every push.

Mobile Application Developer Intern, PayNav, [Link](#)

Jun 2021 – Dec 2021

- Engineered a Financial Application using Flutter, optimizing the User experience for real-time expense tracking and budgeting.
- Built scalable REST APIs using Node.js and MongoDB, reducing response time by 25% and improving application performance.
- Applied Agile methodologies, completing four development sprints and delivering key app features 15% ahead of schedule.

Full Stack Developer, Kataria Plastics, [Link](#)

Jan 2021 – March 2021

- Crafted a bidding interface using Flutter and Firebase for backend, optimizing data synchronization and query performance.
- Designed the database schema supporting cross-platform data, enhancing data management efficiency and scalability by 25%.
- Integrated MapBox APIs for tracking, route mapping, & automated cost estimations, reducing manual calculation errors by 30%.
- Employed Agile methodologies with iterative sprint cycles and regular client feedback loops, ensuring timely project delivery and continuously refining requirements.

Web Application Developer, Believe ExIm, [Link](#)

Dec 2020 – Feb 2021

- Created and deployed e-commerce platform using JavaScript, HTML, CSS and optimizing performance across various devices.
- Adopted Agile SDLC, driving iterative development of features, which resulted in a 2x increase in customer engagement.

Software Engineer Intern, IIT Bombay

May 2020 – June 2020

- Built a real-time Android application for information retrieval using Java and TensorFlow Lite, achieving 85% model accuracy.
- Implemented a CNN model, trained on a dataset of 1 million images, resulting in a 20% improvement in precision and reliability.
- Executed Bluetooth communication protocols to transmit data at 50 Hz between the application and Raspberry Pi controller.

PROJECTS

MatchIt - Resume Optimization Tool

Oct 2024

- Built a resume matching tool using .NET Core, allowing users to upload resumes and job descriptions for compatibility scoring.
- Created API endpoints with ASP.NET for file upload, text processing, and scoring, with a React frontend for user interaction.
- Integrated GenAI to analyze job descriptions and generate keyword suggestions for resumes, enhancing alignment with roles.

2Dto3D

Sept 2024

- Created an app that converts images into 3D models using Flask, Python, Pix2Vox, returning 3D data structure to the frontend.
- Rendered the model in real-time with Three.js, enabling seamless frontend-backend integration for smooth user interaction.

AI-Powered Sign Language Interpretation Tool, [Link](#)

Oct 2021 - Feb 2022

- Developed an interpreter for the deaf-mute community using SSD-mobilenet, Python and TensorFlow, achieving 82% accuracy.
- Collected and labeled 108000 frames from 12 participants, tested this data with other algorithms like posenet 3D, YoLo V2.
- Cut communication processing time by 40%, converting sign language video to text and text to ASL video using TensorFlow.

SKILLS

Programming Languages: Python, Javascript, Typescript, Dart, Java, C/C++, SQL, C#, Swift

Web Technologies: ReactJS, NextJS, NodeJS, AngularJS, HTML/CSS, Flutter, CMS, Tailwind, ASP.NET, Bootstrap, Wordpress

Database: Firebase, MySQL, MongoDB, PostgreSQL, Git, Github, AWS

Machine Learning: Tensorflow, PyTorch, Matplotlib, Scikit-Learn, NLP, OpenCV, Computer Vision