

Allenki Akshay

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[🔗 portfolio](#)

[in LinkedIn](#)

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Education

Vellore Institute of Technology - Andhra Pradesh

2022 – 26

Bachelors in Computer Science and Engineering

Narayana Junior College, Hyderabad

2020 – 22

M.P.C Telangana State Board of Intermediate Education

Experience

Software Engineer Intern | [Live ↗](#)

Remote, IN

Navigate Labs

Sep 2024 – Feb 2025

- Architected "Nexus Platform," an online code editor integrated with artificial intelligence (AI) for educational institutions, enhancing interactive learning and coding.
- Employed cutting-edge technologies including Next.js, Python, and AWS services for robust and scalable application architecture and created an interactive dashboard for utilization tracking.

Software Engineer Intern | [Certificate ↗](#) | [Live ↗](#)

Amaravati, IN

Vellore Institute of Technology, Andhra Pradesh

Sep 2023 – Sep 2024

- Led a team of five developers in the development of the official VIT-AP University website. Architected a scalable system design capable of handling 1+ million monthly requests.
- Implemented using Next Js and Tailwind CSS for a responsive front-end and Strapi headless CMS for efficient content management, resulting in improved SEO 40%.
- Deployed on AWS, using S3, EC2, RDS, Amplify, and Auto Scaling Groups to achieve 99.9% uptime and streamlined CI / CD pipelines.

Full-Stack Engineer Intern | [Certificate ↗](#)

Remote, IN

Indian Institute of Technology, Bombay

May 2023 – Apr 2024

- Worked on OCR detection, ASR recognition, and transcript translation to enhance multilingual accessibility.
- Constructed using a React.js-based speech recognition system, reducing customer wait times by 25% and improving first-call resolution, boosting service efficiency.
- Led the integration of an Audio Transcription API that processed more than 10,000 files monthly, cutting transcription times by 75% and improving service delivery.
- Implemented a serverless Python Flask backend with Redis, accelerating deployment by 40% and improving response rates by 25%, focusing on crucial API integrations for transcription and translation.
- Worked on OCR detection and ASR recognition and translation

Projects

Pothole Detection

- Created a real-time pothole detection system using **YOLO v8**, trained on 10,000+ images, and deployed on **NVIDIA Jetson Nano**.
- Achieved **97.3% mAP@50** with **94.2% precision** and **95.7% recall** for pothole and manhole detection.
- Improved road maintenance efficiency by enabling high-accuracy detection for proactive repairs.

Resume Builder

[Live ↗](#)

- Engineered a full-stack Resume Builder web application utilizing Next.js and Tailwind CSS for the frontend, integrating Firebase authentication and Redux for state management, achieving deployment on Vercel with zero downtime.

Technologies

Languages: Java, Python, JavaScript, Typescript.

Cloud: AWS, Azure, GCP.

Libraries: Numpy, Pandas, Matplotlib, NLTK, Spacy, Whisper, Tensorflow, Pydub, Pyannote.

Frameworks: Next.js, React.js, Vue.js, Node.js, Express.js, Prisma ORM, Django, Flask, FastAPI, Headless CMS (Strapi, Sanity).

Devops Tools: Docker, Kubernetes, GitHub Actions.

Databases: MySQL, PostgreSQL, MsSQL, SQLite, MongoDB, Redis.

Relevant Coursework: Data Structures & Algorithms, Operating Systems, OOPS, Database Management System, Cloud Computing, Natural Language Processing, Computer Networks.

Soft Skills: Leadership, Communication, Client relations, Learning agility.

Awards and Achievements

Acknowledged Contributor – EMNLP 2024 | [Paper Link ↗](#)

Nov 2024

"Enhancing ASR Cross-Lingual Proper Noun Recognition Using Large Language Models"

AWS Academy Cloud Foundations | [Badge ↗](#)

Oct 2024