





Allenki Akshay

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Education

Vellore Institute of Technology - Andhra Pradesh <i>Bachelors in Computer Science and Engineering</i>	2022 – 26
Narayana Junior College, Hyderabad <i>M.P.C Telangana State Board of Intermediate Education</i>	2020 – 22
Krishnaveni High School, Mancherial <i>Telangana State Board of Secondary Education</i>	2019 – 20

Experience

Software Engineer Intern Live 	<i>Remote, IN</i>
<i>Navigate Labs</i>	<i>Sep 2024 – Feb 2025</i>
<ul style="list-style-type: none">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 	<i>Amaravati, IN</i>
<i>Vellore Institute of Technology, Andhra Pradesh</i>	<i>Sep 2023 – Sep 2024</i>
<ul style="list-style-type: none">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 	<i>Remote, IN</i>
<i>Indian Institute of Technology, Bombay</i>	<i>May 2023 – Apr 2024</i>
<ul style="list-style-type: none">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.	
Full Stack Developer Intern	<i>Remote, IN</i>
<i>TIMESERA ERP</i>	<i>Mar 2024 - Aug 2024</i>

Projects

VITopia Website Code Repo 	Live 
<ul style="list-style-type: none">Built a QR-based ticket verification system for VITopia 2025 and VITopia 2024, streamlining entry for 30,000+ attendees over three days in 2025 and 20,000+ attendees over two days in 2024, effectively eliminating ticket fraud. Enhanced seamless ticket purchases and automated bulk email distribution to 10,000+ students.Engineered a high-performance barcode and QR code scanning system, reducing verification time by 80% and preventing duplicate entries. Optimized logistics for T-shirt distribution, ensuring zero delays or mismatches.	
Pothole Detection	
<ul style="list-style-type: none">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.	
Certificate Generator Code Repo 	Live 
<ul style="list-style-type: none">Launched a Certificate Generator web application, leveraging Next.js and Tailwind CSS for the front-end; personally resolved 15+ bugs within the first week, ensuring optimal performance on Vercel.	

- Conceptualized and coded a full-stack Resume Builder application, integrating Firebase authentication and Redux for state management, which had 50 sign-ups in the first week, demonstrating immediate user adoption.

Technologies

Cloud: AWS, Azure, GCP.

Languages: Java, Python, JavaScript, TypeScript.

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

Frameworks: YOLOv8, Next.js, React.js, Vue.js, Node.js, Express.js, Prisma ORM, Django, Flask, Headless CMS(Strapi, Sanity).

Devops Tools: Docker, Kubernetes, GitHub Actions.

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

Real-time Systems: WebSockets, Socket.io, WebRTC.

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

AWS Academy Cloud Architecting

Oct 2024

Amazon Machine Learning Summer School Program

July 2024