ACHYUT KATIYAR

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EDUCATION

Northeastern University   January 2025 – December 2026
Master's in Computer Science   *Boston, Massachusetts, USA*

SRM University - AP   October 2020 – May 2024
Bachelor of Science in Computer Science   *Vijayawada, India*

TECHNICAL SKILLS

- **Languages**: Java, Python, C, C++, HTML, CSS, JavaScript, TypeScript, Go, Rust, R, SQL
- **Frameworks / Libraries**: React.js, Next.js, Node.js, Angular.js, Express.js, Flask, Tailwind, Android SDK, Three.js
- **Cloud / DevOps**: AWS (S3, DynamoDB, Lambda), GCP, Unix/Linux, Docker, Kubernetes, Redis, MongoDB, Spring
- **AI / ML**: TensorFlow, PyTorch, LangChain, OpenAI API, Vector Databases, Hugging Face, RAG, NLP Libraries
- **Concepts**: Data Structures & Algorithms, Distributed Systems, Machine Learning, Deep Learning, Computer Vision, Generative AI, LLMs, Network Security, System Design, Web Development, API Development, WebRTC

WORK EXPERIENCE

Full Stack Web Developer   January 2024 – June 2024
SRM University - AP   *Vijayawada, India*

- Collaborated with team to develop a **full-stack web application** using **React.js**, **Node.js**, and **MongoDB** for 3000+ UROP/Capstone students, enabling **task tracking**, **document sharing**, and **access control** to streamline collaboration.
- Analyzed and optimized **UI/UX** performance, reducing page load time by 60% and improving responsiveness across devices.
- Achieved 75% grading accuracy improvement by developing **automated scripts for routine tasks** to streamline **grading** and **task tracking workflows**, solving complex evaluation problems.

Technical Intern   October 2023 – June 2024
SRM University - AP   *Vijayawada, India*

- Orchestrated the technical operations for 30+ university events, designing and deploying **websites** with integrated **payment gateways**, resulting in a 25% increase in event participation.
- Developed automated dashboards and workflows, increasing user satisfaction by 75% and cutting coordination time by 60%.
- Created productive environment through **cross-functional collaboration**, achieving 95% client satisfaction.

PROJECTS

SkillBridge AI | *Next.js 14, TypeScript, PostgreSQL, Prisma ORM, Redis, OpenAI API, Docker*

- Built **AI-powered voice assistant** orchestrating OpenAI for text generation and ElevenLabs for voice synthesis, achieving **<500ms** end-to-end response time with 97% accuracy across 10+ accents.
- Designed scalable **distributed microservices architecture** for large software systems with Redis caching and PostgreSQL, handling 500+ concurrent users using **parallel processing** techniques.
- Implemented **type-safe API layer** with optimized data structures and rate limiting middleware, reducing database queries by 60% and achieving sub-200ms response times.

Zenith (Winner – Hacker House Goa 2024) | *React.js, Tailwind, Solidity, Polygon, IPFS, Web3*

- Built decentralized music platform for 150+ artists to mint/sell **NFTs**, enabling 300+ transactions with **30% faster monetization**.
- Developed **RBAC** and community hubs, increasing user session duration by **65%** through enhanced engagement features.
- Eliminated third-party dependencies with **automated royalty payouts**, reducing overhead and latency by **30%**.

Academic Collaboration Platform | *React, AWS Lambda, DynamoDB, Terraform, WebSockets*

- Built **serverless collaborative editor** using AWS Lambda, API Gateway, and DynamoDB with real-time WebSocket synchronization.
- Implemented **Infrastructure as Code** using Terraform, automating deployment of entire AWS stack with single command.
- Designed **single-table DynamoDB schema** with GSI for optimized query patterns, handling authentication via AWS Cognito.

LEADERSHIP / ACHIEVEMENTS

- Mentored **350+ students** as **Teaching Assistant for CS2000** at Northeastern University in **Python** programming, demonstrating ability to **communicate complex concepts across diverse audiences**. Additionally serving as **Co-chair of MIT Bitcoin Expo 2026**.
- Won **Hackathons**: $1500 Nillion Track Prize (Hacker House Goa 2024), $600 Move it with Aptos, $500 Marbelism Prize (HACKSRM 5.0), $500 Optimum Hacknet (MIT).