

Akash R

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Education

Chennai Institute of Technology, BE in Electronics and Communication

Nov 2022 - Mar 2026

- GPA: 8.2/10

Technical Skills

- Programming Languages:** C++, Java, SQL
- Databases:** MongoDB, Firebase, MySQL, PostgreSQL
- Backend:** Node.js, Express.js, RESTful APIs
- Frontend:** React.js, Next.js
- Core Concepts:** Object-Oriented Programming (OOPs), Computer Networks (CN)
- Tools & Platforms:** Git, GitHub, VS Code, Windsurf, Cursor, Linux (shell commands, environment setup)

Internship Experience

PrepInsta, Full Stack Developer Intern

Jun 2024 – Aug 2024

- Worked on building and improving backend modules using **Node.js** and **Express.js**, where I created REST APIs and optimized SQL queries to make the system run faster and smoother.
- Added secure login and authentication features, improved error handling, and linked **MongoDB** with Python scripts for automation, which helped maintain stable performance and almost zero downtime during development.

CodeBind Technologies, Web Developer Intern

Nov 2023 – Dec 2023

- Designed an **Online Ticket Booking Platform** from scratch, designing database structures and implementing CRUD operations in PostgreSQL to handle user data safely and efficiently.
- Used both **PostgreSQL** and **MongoDB** to manage different types of data, optimized queries using indexing, and automated a few daily tasks with Python scripts, which helped improve overall performance and workflow speed.

Projects

MailSense - Smart Email Assistant

MailSense

- Built a secure email system where users log in with **Google OAuth**, fetch real-time emails via Gmail API, and manage everything with complete data privacy.
- Increased a **Python module** to classify and summarize emails, sending key updates via **Twilio WhatsApp API**.

SyncOps - Real-time Collaboration Platform

SyncOps

- Created real-time pipelines using **Python FastAPI** and asynchronous I/O to process 100+ data streams under 100ms, delivering high-performance live updates.
- Improved **PostgreSQL database** and ETL logic, which boosted data handling speed and accuracy by 40%.

TruthGuard - AI-powered Data Analysis Tool

TruthGuard

- Used **MongoDB Vector Search** to perform context-based content analysis on large unstructured data efficiently.
- Built an **asynchronous data ingestion system** to handle 10GB+ text data quickly with consistent performance.

OpenPrep - Placement Preparation Platform

OpenPrep

- Developed a collaborative platform integrating **company-specific resources**, **structured coding paths**, and **curated interview materials** for student readiness.
- Integrated a **real-time content system** with React.js and MongoDB, serving over 1,500 active learners efficiently.

Achievements

- DocuSign Hackathon Winner** – Secured the "**Most Valuable Project**" award for developing an innovative, real-world solution that showcased strong technical and problem-solving skills, winning \$100.
- Nosu AI Hackathon Recognition** – Appreciated for exceptional work in building an AI-driven solutions.
- Google Chrome AI Challenge, SIH Finalist** – Reached finals for developing a scalable, high-performance solution.
- Freelancing Milestone** – Delivered a production-level **E-Learning Platform**, earning 20k with excellent feedback.

Certifications

- Digital Skills: Artificial Intelligence** – Certified by Accenture via FutureLearn; explored AI fundamentals, workplace applications, and the evolving collaboration between humans and AI.
- Introduction to Networks & Security** – Certified by Cisco; gained strong understanding of computer networks, protocols, and security principles, including practical networking concepts.
- MongoDB for Developers** – Completed from MongoDB University, with a strong focus on data modeling, aggregation pipelines, and efficient indexing for real-time applications.

Leadership & Analytics Experience

- Head of Web Development, Vidyutrenz Symposium** – Led a team to design and launch a reliable event platform handling over **2,000 registrations** with real-time tracking and smooth user experience.
- Technical Event Coordinator** – Managed data collection, coordination, and reporting for **250+ participants**, ensuring accuracy, operational efficiency, and timely result.