

Akhil Tuluri

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EDUCATION

National Institute of Technology, Srinagar

Bachelor of Technology in Computer Science

Srinagar, Jammu and Kashmir

Sept 2022 – July 2026

Sasi New Gen Junior College

Intermediate (M.P.C), 91%

Vellivennu, Andhra Pradesh

July 2020 – Aug 2022

EXPERIENCE

Backend Developer Intern

September 2025

Pamsar Technologies

Pune, India

- Integrated Stripe payments (PaymentIntent, Webhooks, Customer API) using Node.js & Express to enable 100% secure online transactions, reducing checkout failures by 30% and improving payment reliability.
- Built and optimized 20+ RESTful using Node.js, Express, and MongoDB backend APIs for admin management modules (Users, Orders, Roles & Permissions), improving data retrieval.
- Collaborated with cross-functional teams to design scalable backend architecture, implementing role-based authentication, input validation, and standardized error handling, reducing production bugs

PROJECTS

MetaMeet | *React, Three.js, Node.js, Socket.IO, MongoDB, JWT* | [Live Demo](#)

January 2025

- Built real-time 3D virtual collaboration platform serving 50+ concurrent users across 10+ interactive zones with WebGL rendering at 60 FPS using React and Three.js
- Engineered bidirectional communication system with Socket.IO handling 500+ real-time events/minute for avatar synchronization, live chat, and video calls using Jisti-Meet
- Deployed production-ready full-stack application with 99.8% uptime, processing 2000+ daily API calls through 15+ Node.js endpoints and MongoDB collections

FitFuel: Scalable E-Commerce | *Aws, Nextjs, MERN, Redis, TypeScript*, | [GitHub](#)

September 2025

- Developed a scalable fitness supplements e-commerce platform with Next.js + TypeScript frontend, Node.js backend, and MongoDB, implementing authentication, product catalog, cart, checkout, and admin dashboards.
- Built serverless microservices for email verification and order processing using AWS Lambda and Amazon SQS, decoupling checkout from downstream tasks for reliable asynchronous order management.
- Implemented real-time order status tracking via WebSockets, deployed on AWS EC2 with load balancing, and CloudWatch monitoring, supporting thousands of concurrent users.

News-XBot | *JavaScript, Node-Cron, Node.js, Express, News-API, Twitter-API v2* | [GitHub](#)

May 2024

- Developed an automated Twitter bot to fetch real-time news from public APIs and post updates to X (Twitter) every 12 hours.
- Deployed and scheduled the bot on AWS EC2, ensuring reliable, continuous operation with minimal manual intervention

TECHNICAL SKILLS

Languages: Java, JavaScript, HTML, CSS, MYSQL.

Developer Tools & Platforms: Git, GitHub, VS Code, Postman, Render, Linux.

Technologies/Frameworks: React, NextJs, Node.js, Express.js, Tailwind CSS, MongoDB, Jest.

Skills: Full Stack Web Development, Data Structures & Algorithms, RESTful APIs, Problem-solving, Collaboration.

Cloud & Hosting : AWS (EC2, Lambda, CloudFront, SQS), Redis.

RELEVANT COURSEWORK

Data Structures & Algorithms | Database Management | Operating Systems | Artificial Intelligence | Object-Oriented Programming | Software Engineering | Web Technologies

ACHIEVEMENTS & CERTIFICATIONS

Qualified for National Talent Search Examination (NTSE) Stage 1 among top 1% of 500,000+ state-level participants

Achieved Semi-finalist position in JUNIOR CHESSCOMP-2018 tournament competing against 200+ players

Completed 5+ technical projects with 100% deployment success rate across React, Node.js, and Java ecosystems

Solved 400+ LeetCode problems, demonstrating strong proficiency in Data Structures & Algorithms.