

Kaushiik Arul

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SUMMARY

Computer Science undergraduate with hands-on experience in backend engineering, frontend development, cloud infrastructure, and AI/ML-based applications. Skilled in building scalable REST APIs, responsive web applications, CI/CD pipelines, and containerized cloud deployments using modern technologies including NestJS, Angular, FastAPI, Docker, and AWS. Experienced in machine learning model development, data mining, serverless architectures, and production-ready system design with a strong focus on scalability, automation, and performance optimization.

EDUCATION

Kumaraguru College of Technology

B.E. Computer Science Engineering — GPA: 8.12

India

2023 – Present

EXPERIENCE

Software Engineer Intern

June 2025 – July 2025

Telecomatics

India

- Designed and optimized a Typesense-based search solution for nearly 1 million records.
- Improved query performance by 40% through indexing optimizations and Docker workflows.

Backend Engineer Intern

March 2025 – April 2025

Smart Stream Technologies

India

- Developed NestJS backend APIs with JWT authentication and RBAC for a local job marketplace platform.
- Used Docker Compose, GitHub Actions, and AWS EC2 for deployment and backend workflows.

PROJECTS

JobFlow | *NestJS, MySQL, Docker, AWS, Terraform*

- Engineered a production-ready NestJS API with JWT authentication, RBAC, MySQL, and Docker.
- Deployed scalable infrastructure on AWS ECS Fargate using Terraform and automated CI/CD using GitHub Actions.
- Implemented secure job workflow management features for scalable backend operations.

CloudOverwatch | *Next.js, AWS Lambda, DynamoDB, EventBridge*

- Developed a serverless AWS automation platform for cloud resource cleanup and cost optimization.
- Implemented automated workflows using Lambda, EventBridge, DynamoDB, and IAM for infrastructure monitoring.
- Reduced manual DevOps effort through automated cloud monitoring and cleanup processes.

Insight Engine | *TypeScript, AWS Bedrock, Next.js, Terraform*

- Designed an AI-powered event-driven content pipeline using AWS Bedrock and Next.js for automated research and social content generation.
- Developed scalable serverless infrastructure using Lambda, DynamoDB, Terraform, and GitHub Actions CI/CD.
- Implemented intelligent content ingestion and AI-based relevance scoring for social media automation workflows.

ACHIEVEMENTS

Amazon ML Challenge 2025

Rank 1123 / 82,478+ Teams

- Built a hybrid ML pipeline using LightGBM, TF-IDF feature engineering, and target encoding for smart product pricing prediction.

AI for Bharat Hackathon 2025

Top 36 Shortlisted Teams

- Developed Insight Engine using AWS Bedrock and serverless AWS infrastructure for AI-driven content automation.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, SQL, C/C++, PySpark

Backend & Frameworks: NestJS, Node.js, FastAPI, Next.js, Angular

Cloud & DevOps: AWS, Docker, Terraform, GitHub Actions, CI/CD

Databases: MySQL, PostgreSQL, MongoDB

Testing: Selenium, Playwright

Core Concepts: REST APIs, JWT, RBAC, OOP, DBMS, OS, Networks, Machine Learning