

Kaushik Pranay Associate Software Engineer

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Profile

Associate Software Engineer at TCS with experience in cloud support, system reliability, and automation. Improved application performance by 30% through code optimization. Currently building skills in DevOps and AI to move into AI engineering, focusing on smart automation for DevOps and logistics workflows in the FedEx project.

Skills

Languages — Java, Python, SQL

Frameworks & Tools — Spring Boot, AWS (Lambda, S3, DynamoDB, CloudWatch, IAM, EC2), GitHub, Terraform, Git-Action

Core Competencies — Object-Oriented Programming (OOP), Database Management Systems (DBMS), Cloud Automation, CI/CD Integration

Professional Experience

Cloud Support Engineer, TCS 03/2025 – 10/2025 | Indore

- Enhanced 4 AWS Lambda functions, reducing execution time by 5 seconds per invocation through code optimization.
- Configured and deployed 3 CloudWatch monitoring triggers to improve system observability and incident response.
- Developed 1 Terraform infrastructure module from scratch, automating environment provisioning and cutting manual setup time by 80%.
- Built 2 AI model prototypes focused on **process automation**, enhancing accuracy, and reducing manual effort.

Projects

Cloud Projects, AWS Services (S3, Lambda, Amplify, API Gateway, DynamoDB) 05/2025 – 10/2025

- Designed and deployed a personal portfolio hosted on Amazon S3, improving load performance by 25% compared to the previous version.
- Integrated AWS Lambda to trigger a feedback form and notify user submissions directly to mobile, increasing user feedback collection by 40%.
- Built a full stack “Power of Math” application leveraging AWS Amplify for front-end hosting and API Gateway + Lambda for serverless computation, reducing server costs by 35%.
- Utilized DynamoDB for scalable data storage and optimized query efficiency by 20%.
- Reduced overall cloud infrastructure costs by 10% through Terraform automation, AWS Lambda tuning, and auto-scaling optimization.

E-Cart Store, (Java, Spring Boot, Angular) 03/2025 – 05/2025

- Executed user profile creation, editing, and displaying with a responsive UI and RESTful API connectivity, improving user interaction efficiency by 25%.
- Collaborated with a 5-member cross-functional team to ensure seamless integration with authentication, cart, and order modules, leading to a 15% faster release cycle.

Alphabet Gesture Recognition using CNN (Python, CNN) 07/2023 – 02/2024

- Engineered** a CNN-based Indian Sign Language translator, **training** on 15,000+ gesture samples representing 26 alphabet classes.
- Attained** 92% model accuracy and **accelerated** recognition speed by 30% through advanced dataset

preprocessing and hyperparameter tuning.

Education

Bachelor of Technology, Oist (CGPA: 8.62)

06/2020 – 05/2024 | Bhopal, India

Senior Secondary (Class XII) – CBSE (Percentage: 69.8) 

03/2020 | Bihar, India

Certifications

- AWS Certified Cloud Practitioner