Kartikay Singh Pundir

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Experience

Ukudala *Belfast, United Kingdom*
Backend Developer *April 2025 – July 2025*

- Architected **45+ AWS Lambda functions** with **Node.js 22.x**, implementing microservices architecture using **API Gateway** REST/WebSocket APIs for publishing platform.
- Built **real-time messaging system** using **WebSocket APIs** and **DynamoDB Streams**, handling 10,000+ concurrent connections with sub-100ms latency.
- Designed **document processing pipeline** using **Step Functions**, integrating **Rekognition**, **Textract**, and containerized **ClamAV on EFS** for content moderation and virus scanning.
- Optimized **25+ DynamoDB tables** with composite keys, GSIs, and streams, implementing **multi-tenant Cognito auth** with JWT-based invitations and RBAC.

NusterAI *Jersey City, NJ*
Full Stack Developer *Jan. 2025 – March 2025*

- Engineered **CI/CD pipelines** with **Docker**, reducing deployment time by 40% and improving feature delivery by 25%.
- Developed reusable **UI components** and **microservices APIs**, enabling horizontal scalability.
- Built scalable full-stack applications for **5,000+ concurrent users**.

ToastD *Hyderabad, India*
FullStack Developer *Oct. 2024 – Dec. 2024*

- Architected **scalable microservices** for e-commerce platform handling **10,000+ concurrent users**.
- Implemented **Redis caching** and **database indexing**, reducing query time by 60% for product discovery.
- Built **horizontally scalable REST APIs** with load balancing to support growing Gen Z user base and product catalog.

Projects

CodeClash ☑ — *Node.js, Next.js, PostgreSQL, Docker, AWS* ○ **GitHub** ☑ *Dec. 2024 - Feb. 2025*

- Developed real-time 1v1 coding battle platform using **Next.js** and **Node.js**.
- Built **Dockerized code execution service** with **BullMQ/Redis** for secure, concurrent submission handling.
- Created responsive UI with live status indicators, animated transitions, and theme-aware code editors.
- Integrated **AWS Lambda** for serverless code execution and **WebSockets** for real-time matchmaking.
- Deployed on **Kubernetes/AWS** with load testing validated for 150-200 concurrent users.

Classence ☑ — *Node.js, Typescript, React, MongoDB, Socket.IO, WebRTC* ○ **GitHub** ☑ *Nov. 2024*

- Developed full-stack educational platform using **React** and **Node.js/TypeScript** for seamless learning experience.
- Built **real-time features** including chat, live lectures, and assignments using **Socket.IO** and **WebRTC**.
- Built responsive React frontend for lecture streaming, assignments, and student interaction.
- Implemented **MongoDB** for chat storage with privacy controls and **AWS S3** for scalable file management.
- Established **CI/CD pipelines** reducing deployment time and errors by 30%.

Skills

Languages: Python, Bash, C/C++, JavaScript, TypeScript, HTML, CSS
Frameworks & Libraries: Next.js, React, Redux Toolkit, Tailwind CSS, Node.js, Material-UI, GSAP, shadcn/ui
Databases: DynamoDB, PostgreSQL, MongoDB, Redis
Cloud & DevOps: AWS (Lambda, DynamoDB, S3, API Gateway, Cognito, Step Functions, EFS, Rekognition, Textract), Docker, Kubernetes, SAM/CloudFormation
Tools & Platforms: Git, GitHub, Postman, VS Code, BullMQ, Socket.IO, WebRTC, WebSockets

Education

Ajay Kumar Garg Engineering College, Ghaziabad *Aug 2021 – May 2025*
Bachelor of Technology in Computer Science and Engineering - 8.4 CGPA

The Doon Valley Public School *Apr 2019 – May 2022*
Senior Secondary Education (CBSE Board) - 93.2%