

ABHISHEK NIGAM

U.S. Patent Filed · AI-Driven Adaptive VM Placement

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SUMMARY

Software Engineer with 2.5+ years of experience building **scalable, secure full-stack applications** using **React.js, TypeScript, Node.js, and REST APIs** across distributed cloud environments. Experienced in **responsive UI development, backend services, authentication flows, cloud deployments, and performance optimization** for enterprise-scale platforms serving **200K+ users**. Solved **400+ LeetCode DSA problems**, demonstrating strong problem-solving skills.

SKILLS

Languages: JavaScript, TypeScript, HTML5, CSS3, C++, Java, SQL

Frontend: React.js, Next.js, Redux, Tailwind CSS, Responsive UI, React Query, WebSockets

Backend & Databases: Node.js, REST APIs, GraphQL, MongoDB, MySQL, Redis, JWT, OAuth

Cloud & DevOps: AWS, Docker, Kubernetes, CI/CD Pipelines, Jenkins, IBM Cloud, Git, GitHub

AI/ML & Tools: Generative AI, LLMs, RAG, Prompt Engineering, Cypress, Jira, Observability

EXPERIENCE

Software Engineer | IBM

Jan 2024 – Present

- Built scalable **full-stack enterprise applications** using **React.js, TypeScript, Node.js, and REST APIs**, enabling **4× faster** VM restart recovery and seamless onboarding for **200K+** users.
- Developed dynamic and responsive frontend modules with **React Query, Redux, and Tailwind CSS**, reducing latency by **50% (4s to 2s)** and improving application responsiveness.
- Engineered backend services and secure authentication flows using **JWT, OAuth, and RBAC-based access control**, reducing user-facing downtime by **40%** and strengthening platform security.
- Built and optimized **AI-powered WatsonX chatbot systems** using **LLM-RAG architectures**, file processing pipelines, and API integrations, improving response accuracy by **30%**.
- Automated end-to-end UI workflows using **Cypress, Jenkins, and CI/CD pipelines**, reducing production bugs by **30%**.
- Worked on **cloud-native deployments** across **AWS and IBM Cloud** environments with observability and monitoring integrations, while diagnosing and resolving **20+ production issues**.

AI/ML Intern | IIIT Delhi

Jul 2023 – Dec 2023

- Built an AI-powered recipe generation system using **GPT-2**, leveraging prompt engineering for cuisine-based personalization.
- Implemented evaluation pipelines, analytics tracking, and monitoring, **improving output relevance by 60%** and **reducing manual effort by 70%**. ([Demo](#))

PROJECTS

Collab Canvas | React.js, TypeScript, Node.js, Context APIs, WebSockets

- Developed real-time collaborative application with **WebSocket-based full-stack synchronization and REST APIs**.
- Designed event-driven backend handling **1000+ events/session** with efficient state synchronization. ([Live](#) | [GitHub](#))

Infra Optimizer | Next.js, JavaScript, MongoDB, REST APIs, AWS

- Built AI-driven infrastructure dashboard with **real-time analytics, cloud monitoring, and backend data pipelines**.
- Integrated **Slack alerting, CI/CD pipelines, and cloud-based automation workflows**, cutting incident response time by **10 minutes** and improving observability.

EDUCATION

Indraprastha Institute of Information Technology, Delhi

Jul 2022 – Jun 2024

M.Tech in Computer Science and Engineering | CGPA: 8.62

Reva University, Bengaluru

Jul 2017 – Jun 2021

B.Tech in Computer Science and Engineering | CGPA: 9.59

ACHIEVEMENTS

- Inventor of **U.S. patent** on "AI-Driven Adaptive VM Placement", proposing 30–40% cloud resource optimization. ([GitHub](#))
- Certified in **Salesforce AI Associate, Microsoft Azure Data Fundamentals (DP-900)** and **Google Analytics**.
- Secured **AIR 2075** in GATE CSE 2022 and cleared GATE CSE in 2021 and 2022.