

Shubhendra Singh

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EDUCATION

George Washington University

Masters in Computer Science

Washington, DC
May 2025

Relevant Coursework: Design and Analysis of Algorithms, Cloud Computing, Machine Learning, Big Data Analytics

Dr. A.P.J. Abdul Kalam Technical University

Bachelor of Technology in Computer Science and Engineering

India
Aug 2021

Relevant Coursework: Artificial Intelligence,Distributed System,Computer Architecture,Web Development,Data Mining

SKILLS

Languages: Python,Java, TypeScript, JavaScript (ES6+),

Full Stack Development: React, Next.js, Node.js, Express.js, PostgreSQL, MongoDB

AI/ML:Agentic AI, LangChain, RAG Pipelines, LLM Integration, AI Orchestration (n8n),Prompt Engineering, MCP

Developer Tools: AWS (S3, Lambda, API Gateway, EC2, CloudFront), Vercel, Docker, Kubernetes, GitHub Actions, Jenkins, Terraform, AWS CDK, Git, GitHub, Jira, Postman, Figma

EXPERIENCE

Sherps Inc

Hillsborough, NC

Software Developer

Oct. 2024 – Present

- Led end-to-end development of a **customer-facing dashboard** from concept to production, translating product requirements into a scalable React-based interface that increased user engagement with key features by 25% IN .
- Owned backend performance improvements by rebuilding **REST APIs** with **FastAPI** and async processing, cutting response latency by 40% and improving reliability under growing traffic.
- Collaborated with designers in **Figma** to prototype and refine UI components, cutting design-to-code iteration time by 33%.
- Leveraged **AI-assisted development** (Cursor) to rapidly prototype and refine UI workflows, accelerating iteration.
- Engineered **agentic AI workflows** with **n8n**, automating complex user tasks and reducing manual intervention by 30% .

Pitney Bowes

Noida, India

Software Engineer Intern

June 2024 - Aug. 2024

- Streamlined **React** and **TypeScriptUI** components, boosting accessibility by 23% and fixing cross-browser issues.
- Designed modular **Node.js** and **Express.js** backend with API-first principles, reducing integration time by 25%.
- Architected **MongoDB schemas** with indexing, boosting query speed by 30% and enabling scalable data storage.
- Engineered **RESTful APIs** with Express.js ,optimizing full-stack data flow efficiency by 30% using caching and query tuning.
- Optimized **CI/CD** workflows with **jenkins**, improving deployment reliability by 40% and boosting development efficiency..
- Integrated **AI** powered customer support chatbot using **Ollama API** with custom **prompt engineering**, automating 60%+ of repetitive queries and reducing response time by 35%.
- Optimized **RAG workflows** for chatbots, reducing response time by 35% through iterative refinement.

Softgains Technology

Noida, India

Software Developer

July 2021– July 2023

- Designed and deployed scalable **full-stack web applications** using React.js, Node.js, and PostgreSQL, reducing API response times by 35% and improving page load speed by 25%.
- Enhanced **AI agent** capabilities through **prompt engineering**, automating 60% of queries with personalized guidance.
- Built real-time backend systems using **Node.js**, ensuring efficient data streaming and seamless user interactions.
- Collaborated in **Agile sprints** using **Jira** to implement UI enhancements, boosting user engagement by 15%.
- Containerized apps with **Kubernetes** and automated deployment by **GitHub Actions**, reducing manual effort by 30%.
- Implemented serverless workflows with **AWS Lambda** and API Gateway, speeding up feature delivery by 25%.

PROJECTS

Voice-Activated HR Assistant | Eleven Labs, N8N, Python, FastAPI

- Implemented **Eleven Labs voice integration** with HR automation platform, enabling voice-activated employee onboarding and support
- Designed **voice-driven N8N workflows** for HR processes, allowing natural language initiation of complex multi-step automations

ShopZone – E-Commerce Platform | React.js, Node.js, MongoDB, Redux, Stripe, Ollama AI

- Built comprehensive **full-stack e-commerce** platform with OAuth 2.0 authentication, Redux state management, Stripe payment integration, and intelligent **AI chatbot** reducing customer support tickets by 35%.
- Implemented scalable **REST APIs** with MongoDB indexing strategies, testing using Jest, and a CI/CD pipeline, improving overall performance by 30%.