Kunal Chand

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H-1B Visa Holder (No Sponsorship Required) | 3+ Years in Full-Stack Development & Gen AI | MS in Computer Science

EXPERIENCE

Full Stack Developer | *Python, FastAPI, AWS Lambda, ECR, RDS, S3*   **Sep 2025 – Nov 2025**
O2   *Minneapolis, Minnesota, USA*
- Built and deployed a scalable FastAPI-based REST backend on AWS Lambda connected to RDS PostgreSQL database
- Created CI/CD pipeline in GitHub Actions to automate Docker image builds, ECR pushes, and Lambda function updates
- Implemented pre-signed URL generation for S3 objects, enabling secure direct media access from frontend clients

Software Engineer | *Java, Spring Boot, Kafka, React*   **Jul 2024 – Jul 2025**
Trulogik   *Baltimore, Maryland, USA*
- Built RESTful APIs using Spring Boot, leveraging Spring Data JPA and Hibernate ORM for seamless database integration
- Designed an Event-Driven Architecture for claims-processing system, implementing Kafka producers/consumers for real-time data exchange and scalable claims distribution across adjustors based on type, workload, and efficiency
- Created interactive UI widgets for healthcare insurance claims dashboard, powered by Generative AI and Agentic AI services to summarize reports, recommend next steps, and assist in intelligent claims assignment
- Crafted front-end components with React.js, TypeScript and Material UI, utilizing code-splitting and lazy loading for performance optimization, React Query for efficient data fetching, and Redux for predictable state management

Associate Software Engineer | *Java, Spring MVC, JavaScript, HTML, CSS, SQL*   **Aug 2020 – Jul 2022**
NRI (Nomura Research Institute) FinTech   *Kolkata, West Bengal, India*
- Developed a fintech portal with a responsive UI built with JavaScript, HTML, and CSS, consuming RESTful APIs powered by a Java backend to display financial transaction data, validation alerts, and dynamic content updates for 10M+ users
- Improved database performance via indexing & DDL/DML tuning; boosted storage efficiency via 3NF normalization

EDUCATION

Master of Science in Computer Science and Engineering   **Aug 2022 – Dec 2023**
University at Buffalo, The State University of New York   *Buffalo, New York, USA*
- Relevant Coursework: Analysis of Algorithms; Data Intensive Computing; Machine Learning; Computer Architecture

Bachelor of Technology in Computer Science and Engineering   **Jul 2016 – May 2020**
Kalinga Institute of Industrial Technology (KIIT University)   *Bhubaneswar, Odisha, India*
- Relevant Coursework: Data Structures; Computer Networks; Computer Graphics; Operating System

PROJECTS

Timesheet Auto Filler | *Java, Selenium, OOP*   [GitHub](#)
- Automated timesheet entry in an in-house app using Selenium, reducing daily entry time from 10-15 minutes to under 2 minutes with a one-click workflow

PDF Gen AI Chatbot | *Python, LangChain, Streamlit, Groq, Pinecone, Llama3*   [Live Demo](#) | [GitHub](#)
- Engineered a RAG-based LLM chatbot to process 100+ page PDFs and answer queries with context-aware responses
- Created Pinecone vector database with HuggingFace embeddings for optimized context retrieval in the RAG pipeline

SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, C++
Frameworks & Libraries: FastAPI, Spring Boot, React (Redux, React Router, Material UI, TanStack), LangChain
Databases: PostgreSQL, MySQL, OracleDB, Microsoft SQL Server
Cloud & DevOps: AWS (Lambda, ECR, RDS, S3), Docker, GitHub Actions
Other: Data Structures, Algorithms, Design Patterns, Object Oriented Programming, Test Driven Development

ACHIEVEMENTS

Publications: Authored 2+ editorials/blogs/articles ([Brick Wall](#) | [Minimum Area Rectangle](#) | [Recursion Guide](#))
Certifications: [DevOps Professional Certificate by PagerDuty and LinkedIn](#) | [Hands-On Approach to OOP with Python](#)