# 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

**Software Engineer** | *React, Redux, Java, Spring Boot, Kafka*                                    **Jul 2024 – Jul 2025**
*Trulogik*                                                                                                                                  *Baltimore, Maryland, USA*

- 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
- 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

**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 10K+ 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, Eclipse*                                                                            [GitHub](#)

- Automated timesheet entry in an in-house app using Selenium, cutting manual effort by 75% 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 answer queries from uploaded PDFs, improving research speed by 60%
- Created Pinecone vector database with HuggingFace embeddings for optimized context retrieval in the RAG pipeline

**Distributed CLI Chat System** | *C/C++, Socket Programming, TCP/IP*                                          [GitHub](#)

- Built a centralized client-server model for a text chat app using TCP sockets & C++ for multi-client communication
- Deployed and tested application on dedicated hosts, ensuring cross-platform compatibility and robustness
- Provided dual functionality, acting as a UNIX Shell accepting commands, simultaneously handling network operations

## SKILLS

**Languages**: Java, Python, JavaScript, TypeScript, Go, C++, C, SQL, HTML, CSS
**Frameworks & Libraries**: Spring Boot, React (Redux, React Router, Material UI, TanStack), FastAPI, LangChain, LangGraph
**Databases**: PostgreSQL, MySQL, OracleDB, Microsoft SQL Server, MongoDB, Cassandra, Redis, HBase
**Cloud & DevOps**: AWS, Azure, GCP, Docker, Kubernetes, Terraform, Ansible, Jenkins, SonarQube, Nginx, CI/CD
**Analytics & Monitoring**: ELK (Elasticsearch, Logstash, Kibana), Splunk, Datadog, Prometheus, Grafana
**Other**: Data Structures, Algorithms, Design Patterns, OOP, SDLC, Agile, TDD, Git, Jira, Postman, Maven, Hadoop, Spark, Databricks, Microservices, Kafka, REST, gRPC, GraphQL, Jest, Cypress, Playwright, Lighthouse, k6, Selenium, Streamlit

## 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](#)