

# Kunal Chand

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2+ Years of Full Stack Experience | MS in Computer Science | Excited for Software Roles

## EXPERIENCE

**Software Engineer** | *React, TypeScript, Material UI, Spring Boot, Kafka*  
*Trulogik*

**Dec 2024 – Present**

*Washington DC-Baltimore Area, USA*

- Engineered responsive interfaces using React and TypeScript; optimized API calls and resolved rendering bugs
- Built RESTful APIs using Spring Boot, leveraging Spring Data JPA and Hibernate ORM for seamless database integration
- Designed an Event-Driven Architecture application, implemented Kafka producers and consumers while utilizing Kafka Connect with source and sink connectors for real-time data exchange between external systems and Kafka topics

**Research Assistant** | *Python, CUDA, MPI, Slurm, Shell*  
*University at Buffalo (SUNY)*

**Feb 2024 – Feb 2025**

*Remote, United States*

- Analyze molecular stability by executing simulations; optimize performance; develop parallel algorithms
- Enhance computational efficiency by leveraging NVIDIA GPUs with CUDA for high-performance computing

**Associate Software Engineer** | *Java, Spring, Oracle DB, JUnit, Git, Jira, Maven*  
*NRI (Nomura Research Institute) FinTech*

**Aug 2020 – Aug 2022**

*Kolkata, West Bengal, India*

- Developed fintech portal using Java Spring, providing a UI for financial transactions, serving 10K+ users
- Identified performance bottlenecks by employing monitoring tools, profiling techniques, and load testing
- Managed a database with 50M+ records by utilizing DDL & DML scripts to craft SQL queries
- Monitored code quality and adherence to project requirements by conducting 40+ code reviews

## EDUCATION

**Master of Science in Computer Science and Engineering**  
*University at Buffalo, The State University of New York*

**Aug 2022 – Dec 2023**

*Buffalo, New York, USA*

- Relevant Coursework: Analysis of Algorithms; Data Intensive Computing; Machine Learning; Computer Architecture

**Bachelor of Technology in Computer Science and Engineering**  
*Kalinga Institute of Industrial Technology (KIIT University)*

**Jul 2016 – May 2020**

*Bhubaneswar, Odisha, India*

- Relevant Coursework: Data, Structures, Computer Networks; Computer Graphics; Operating System

## PROJECTS

**NRIFT Selenium** | *Java, Selenium, Eclipse*

[GitHub Link](#)

- Automated browser using Java Selenium to streamline attendance management within an in-house application
- Incorporated a one-click feature to automate end-to-end workflow, cutting manual efforts and saving 75% time

**PDF Chatbot** | *Python, Langchain, HuggingFace, Pinecone, Llama3, Streamlit*

[GitHub Link](#)

- Engineered a chatbot that responds to user queries related to uploaded PDFs using RAG enhanced LLM, Langchain
- Created Pinecone vector storage with HuggingFace embeddings, optimizing document retrieval & context generation

**Text Chat App** | *C/C++, Socket Programming, TCP/IP, Command-Line-Interface (CLI)*

[GitHub Link](#)

- 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, C, C++, JavaScript, HTML, CSS, SQL, PHP, Go

**Tools & Frameworks:** React, Spring Boot, Selenium, Docker, Kubernetes, Linux, AWS Cloud, Postman, Git, Jira, Maven

**Functional Skills:** Object Oriented Programming, Pair Programming, Test Driven Development, SDLC, Agile, Code Review

**Miscellaneous:** Data Structures, Algorithms, Design Patterns, PostgreSQL, MongoDB, Microservices, Kafka, REST, CI/CD

## ACHIEVEMENTS

**Publications:** Articulated 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](#)