

Kunal Chand

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2+ years of developer experience; MS in Computer Science; excited for challenging tech roles

EXPERIENCE

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

Dec 2024 – Present

Trulogik

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, while leveraging Spring Data JPA for seamless database integration
- Designed an Event-Driven Architecture application, implementing Kafka producers and consumers, and utilizing Kafka Connect with source and sink connectors to enable real-time data exchange between external systems and Kafka topics

Research Assistant | *Python, CUDA, MPI, Slurm, Shell*

Feb 2024 – Feb 2025

University at Buffalo (SUNY)

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*

Aug 2020 – Aug 2022

NRI (Nomura Research Institute) FinTech

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

Aug 2022 – Dec 2023

University at Buffalo, The State University of New York

Buffalo, New York, USA

- Relevant Coursework: Analysis of Algorithm; 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

PROJECTS

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

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

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](#)