Kunal Chand

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3+ Years of Software Development Experience | MS in Computer Science | Aligned towards Software Roles

EXPERIENCE

Software Engineer | *React, TypeScript, Material UI, Spring Boot, Kafka* **Dec 2024 – Jul 2025**
Trulogik *Baltimore, Maryland, 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

Software Engineer Intern | *React, Redux, React Query, Tailwind CSS* **Jul 2024 – Dec 2024**
Trulogik *Baltimore, Maryland, USA*

- Created dynamic and interactive front-end components with React.js, utilizing code-splitting and lazy loading for performance optimization, TanStack Query for efficient data fetching, and Redux for predictable state management
- Crafted the front-end for efficient data rendering and interaction with generative and agentic AI services

Associate Software Engineer | *Java, JavaScript, HTML5, CSS3, Oracle DB, Git* **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) *Bhubaneshwar, Odisha, India*

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

PROJECTS

NRIFT Selenium | *Java, Selenium, Eclipse* [GitHub Link](#)

- Automated timesheet entry in an in-house app using Selenium, cutting manual effort by 75% with a one-click workflow

PDF Chatbot | *Python, Langchain, HuggingFace, Pinecone, Llama3, Streamlit* [GitHub Link](#)

- 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

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

Programming Languages: Java, Python, C++, C, JavaScript, SQL, PHP, Go, HTML, CSS
Frameworks & Libraries: React, Spring Boot, Redux, TanStack, Tailwind CSS, Material UI, LangChain, Selenium
Cloud & DevOps: AWS, Azure, Linux, Docker, Kubernetes, Jenkins, CI/CD
Other: Data Structures, Algorithms, Design Patterns, OOP, Agile, Pair Programming, Test Driven Development, SDLC, Microservices, Kafka, REST APIs, Git, Jira, Postman, Maven, PostgreSQL

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](#)