

Kunal Chand

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

EXPERIENCE

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

University at Buffalo (SUNY)

Feb 2024 – Present

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

Teaching Assistant | *Go, Linux, Communication, Leadership, Teamwork*

University at Buffalo (SUNY)

Aug 2023 – Dec 2023

Buffalo, New York, USA

- Assisted 70+ students in learning Distributed Systems concepts, and troubleshooting bugs
- Supervised grading & proctoring activities; generated plagiarism reports; resolved doubts

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
- Validated software reliability by executing hundreds of unit and integration test cases

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 Algorithm; 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

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

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

Parallel Systems | *C/C++, MPI, OpenMP, Slurm, Shell*

[Demo Link](#) | [GitHub Link](#)

- Devised an algorithm having distributed and shared memory achieving a 5x speedup for subset sum computations
- Introduced a load balancing feature to dynamically delegate workload between MPI processes & OpenMP threads

SKILLS

Languages: Java, Python, C, C++, HTML, CSS, SQL, JavaScript, PHP, Go

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

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](#)