

# Kunal Chand

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2+ years of developer experience; MS in Computer Science; open to Software Engineer roles

## EXPERIENCE

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| <b>Research Assistant</b>   <i>Python, CUDA, MPI, Slurm, Shell</i><br><i>University at Buffalo (SUNY)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Feb 2024 – Present</b><br><i>Buffalo, New York, USA</i>       |
| <ul style="list-style-type: none"><li>Analyzing molecular stability by executing simulations; optimizing performance; developing parallel algorithms</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                  |
| <b>Teaching Assistant</b>   <i>Go, Linux, Communication, Leadership, Teamwork</i><br><i>University at Buffalo (SUNY)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Aug 2023 – Dec 2023</b><br><i>Buffalo, New York, USA</i>      |
| <ul style="list-style-type: none"><li>Assisted <b>70+ students</b> in learning Distributed Systems concepts, and <b>troubleshooting bugs</b></li><li>Supervised grading &amp; invigilation activities; generated plagiarism reports; resolved doubts</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                  |
| <b>Associate Software Engineer</b>   <i>Java, Spring, Oracle DB, JUnit, Git, Jira, Maven</i><br><i>NRI (Nomura Research Institute) FinTech</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Aug 2020 – Aug 2022</b><br><i>Kolkata, West Bengal, India</i> |
| <ul style="list-style-type: none"><li>Developed fintech portal using <b>Java Spring</b>, providing a UI for financial transactions, serving <b>10K+</b> active users</li><li>Identified performance bottlenecks by employing monitoring tools, profiling techniques, and load testing</li><li>Crafted <b>SQL</b> queries utilizing <b>DDL &amp; DML</b> scripts; efficiently managed a database with <b>50M+</b> records</li><li>Enhanced software quality by using techniques such as <b>code refactoring</b> and Test Driven Development (<b>TDD</b>)</li><li>Monitored code quality and adherence to project requirements by <b>conducting 40+ code reviews</b></li><li>Validated software reliability by executing hundred's of unit and integration test cases</li></ul> |                                                                  |

## EDUCATION

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| <b>Master of Science in Computer Science and Engineering</b><br><i>University at Buffalo, The State University of New York</i>                                | <b>Aug 2022 – Dec 2023</b><br><i>Buffalo, New York, USA</i>     |
| <ul style="list-style-type: none"><li>Relevant Coursework: Analysis of Algorithm; Data Intensive Computing; Machine Learning; Computer Architecture</li></ul> |                                                                 |
| <b>Bachelor of Technology in Computer Science and Engineering</b><br><i>Kalinga Institute of Industrial Technology (KIIT University)</i>                      | <b>Jul 2016 – May 2020</b><br><i>Bhubaneswar, Odisha, India</i> |

## PROJECTS

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| <b>NRIFT Selenium</b>   <i>Java, Selenium, Eclipse</i>                                                                                                                                                                                                                                                                                                                                                                    | <a href="#">GitHub Link</a>                             |
| <ul style="list-style-type: none"><li>Automated browser using Java Selenium to <b>streamline attendance management</b> within an in-house application</li><li>Incorporated a <b>one-click</b> feature to automate <b>end-to-end workflow</b>, cutting manual efforts and <b>saving 75% time</b></li></ul>                                                                                                                 |                                                         |
| <b>Text Chat App</b>   <i>C/C++, Socket Programming, TCP/IP, Command-Line-Interface (CLI)</i>                                                                                                                                                                                                                                                                                                                             | <a href="#">GitHub Link</a>                             |
| <ul style="list-style-type: none"><li>Built a centralized client-server model for a text chat app using TCP sockets &amp; C++ for multi-client communication</li><li>Deployed and tested application on dedicated hosts, ensuring <b>cross-platform compatibility</b> and robustness</li><li>Provided dual functionality, acting as a UNIX shell accepting commands, simultaneously handling network operations</li></ul> |                                                         |
| <b>Parallel Systems</b>   <i>C/C++, MPI, OpenMP, Slurm, Shell</i>                                                                                                                                                                                                                                                                                                                                                         | <a href="#">GitHub Link</a>   <a href="#">Demo Link</a> |
| <ul style="list-style-type: none"><li>Devised an algorithm having distributed and shared memory achieving a <b>5x speedup</b> for subset sum computations</li><li>Introduced a <b>load balancing</b> feature to dynamically delegate workload between MPI processes &amp; OpenMP threads</li></ul>                                                                                                                        |                                                         |

## SKILLS

**Languages:** Java, Python, C, C++, HTML, CSS, SQL, JavaScript, PHP, Go  
**Tools & Frameworks:** Git, Jira, Maven, Linux, Spring Boot, Selenium, AWS Cloud, Docker, REST, Postman, Shell, Bash  
**Functional Skills:** Object Oriented Programming, Pair Programming, Test Driven Development, SDLC, Agile, Code Review  
**Miscellaneous:** Data Structures, PostgreSQL, MongoDB, Design Patterns, Microservices, Kubernetes, CI/CD

## ACHIEVEMENTS

**Publications:** Articulated 2+ editorials/blogs/articles ([Brick Wall](#), [Minimum Area Rectangle](#), and [Recursion Guide](#)).  
**Certifications:** [Getting Started with Python Object Oriented Programming: A Hands-On Approach](#)