

Kunal Chand

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SKILLS

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

Tools and Frameworks: Git, Jira, Maven, Linux, Visual Studio Code, Spring Boot, Spring MVC, Selenium.

Functional Skills: Object Oriented Programming, Pair Programming, Feature Driven Development, SDLC, Agile Model.

Miscellaneous: Data Structures & Algorithms, RDBMS, JDBC, TCP/IP, JSP Servlets, J2EE, MPI, OpenMP.

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

Bachelor of Technology in Computer Science and Engineering

Kalinga Institute of Industrial Technology (KIIT University)

Jul 2016 – May 2020

Bhubaneswar, Odisha, India

EXPERIENCE

Student Assistant

University at Buffalo (SUNY)

Aug 2023 – Dec 2023

Buffalo, New York, USA

- Facilitated over **70 students** in learning Distributed Systems concepts by providing hands-on assistance in comprehending theoretical concepts and **troubleshooting** practical code implementations in Go language.
- Provided guidance and support to students through doubt sessions, successfully **resolving more than 300 doubts**.

Associate Software Engineer

NRI (Nomura Research Institute) FinTech

Aug 2020 – Aug 2022

Kolkata, West Bengal, India

- Enhanced user experience by contributing to developing interactive fintech **portal** that provides a visual summary of monthly financial transactions using **Java Spring Framework** & eclipse debugger to **identify performance bottlenecks**.
- Assured data integrity by aiding in the batch/service development for reconciliation of the front-office financial data with the back-office financial data by using techniques like **code refactoring** and Test Driven Development (TDD).
- Improved code quality and adherence to project requirements by **conducting over 40 code reviews** before code merge.
- Leveraged SQL skills to enhance and contribute to the project's database design and functionality by crafting Data Definition Language (DDL) and Data Manipulation Language (DML) scripts ensuring optimal database performance.
- Ensured robustness and reliability of the software by executing approximately **6000 unit test** cases and validated the interaction between different software modules by running around **300 integration test** cases.
- Collaborated with team members through version control such as Git to organize modifications and assign tasks.

Summer Intern

Defence Research and Development Organisation (DRDO)

May 2019 – Jul 2019

New Delhi, Delhi, India

- Developed desktop app with GUI for secure message transfer between **2 users** connected to a LAN with **100ms latency**.
- Utilized **SOCKET Programming** for communication involving Encryption-Decryption with AES/RSA Algorithm.

PROJECTS

NRIFT Selenium | Java, Selenium, Eclipse

[GitHub Link](#)

- Built a browser automated solution using Java to **streamline the application process** on the in-house attendance app.
- Implemented selenium to create an instance of chrome in order to interact with the correct elements of the web page.
- Designed a **one-click** attendance application tool which automates the **end-to-end workflow**, reducing manual efforts.
- Optimized efficiency by mechanizing attendance application, resulting in **70 percentage time savings** per submission.

Computer Architecture Project | Shell Script, Gem5

[GitHub Link](#)

- Automated Gem5 simulator via shell script for observing x86 processor performance under varied cache parameters.
- Incorporated a feature in the shell **script to dump terminal output data** in a text file, ensuring data preservation.
- Streamlined the process of executing each of the 21 commands and saving terminal output, reducing manual efforts.
- Significantly improved efficiency by optimizing workflow and **transforming a 4-hour task into a mere 2-minute job**.

ACHIEVEMENTS

LeetCode: Solved **200+ problems** and attained two badges in 2022 ([LeetCode Profile Link](#)).

Contest: Secured university **rank 6** in Google Hash Code 2019 team competition, attended 10+ LeetCode Weekly Contests.

Volunteer: Collaborated with Asha's Farm staff to ensure **smooth** online customer **registration and on-boarding**.

Blog: Wrote 2+ editorials/blogs/articles ([Brick Wall](#), [Minimum Area Rectangle](#), and [Beginner's Guide to Recursion](#)).