KUNWAR PARTH SINGH

Los Angeles, CA ⋄ (213) 675-1798 ⋄ parthsingh287@gmail.com ⋄ ksinghparth.com

EDUCATION

University of Southern California, Los Angeles   **Jan 2022-Dec 2023**
Master of Science(Honors) in Computer Science, CGPA: **3.95/4.00**

    Coursework Analysis of Algorithms, Database Systems, Security Systems, Foundations of AI, OS

Thapar Institute of Engineering and Technology(TIET), Patiala   **Jul 2016-Jul 2020**
Bachelor of Engineering in Computer Engineering, CGPA: **9.16/10.00**

SKILLS

Libraries	Spring, React, Django, Kubernetes, Flask, MobX, MyBatis, Pandas, Numpy, Sklearn
Languages	Java, Python, C, Javascript, Solidity, SQL
Technologies	Amazon AWS SQS, SNS, S3, DynamoDB, Git, Linux

EXPERIENCE

Google *Sunnyvale, USA*

    Software Engineering Intern   **May 2023-Aug 2023**
· Worked on the productionization and migration of the Data Export Service of the Content Abuse Platform. The migration replaced the existing Plx/F1 scripts with Flume Pipelines written in Java. The pipelines offer a more modular control over the data and the greatly reduce the running time required for each export.

USC Marshall School of Business *Los Angeles, USA*

    Research Assistant   **Jan 2022-Jan 2023**
· Designed a web scraper using Python, BeautifulSoup, multithreading, and proxy rotation to scrape data from websites with large data sets (45 million+ entries). Manipulated the data into a SQL database which is used for academic research and studying the impact of digital platforms on consumers and markets.

Arcseium India Pvt. Ltd. *Hyderabad, India*

    Software Engineer   **Jul 2020-Jan 2022**
· Developed and maintained the Transporter application that handled 95% of all incoming and outgoing data from the Arcesium platform. The app performed program-to-program data delivery between applications and systems and was crucial in managing $420 billion of assets that the firm supported.

    Software Engineering Intern   **Jan 2020-Jun 2020, May 2019-Jul 2019**
· Revamped the Central Authorization System, migrating it from the legacy framework, Hibernate to a more maintainable and scalable one, MyBatis. This also involved redesigning the db schema and the backend logic. The entire revamp resulted in a 40% reduction in response time of the auth APIs.

PROJECTS

    Plug and Play Cluster Computing   **Jan 2019-Dec 2019**
· Created a distributed system which assembles a cluster instantaneously without any hardware or software installation. Admin can upload a task which is divided amongst the nodes and the final output is computed.

LEADERSHIP AND INVOLVEMENT

· **Honors Student** at USC with a **100% scholarship**
· Rank 22 at **North American Championship by ACM ICPC 2023**
· Regional rank 7 at **ACM ICPC Southern California Regional Contest 2023**
· **Teaching Assistant** for CSCI-430 Intro to Computer and Network Security for Spring 2023
· **Global rank of 381** in **Google Kickstart 2019**, **6-star** on Hackerrank and **Expert** on Codeforces
· Awarded **Merit Scholarship** at TIET for all semesters waiving off 100% tuition fee
· Awarded the **Scholarship for Higher Education** under Innovation in Science Pursuit for Inspired Research by virtue of performance within **top 1% in the country** at Class XII level by Govt. of India