KUNWAR PARTH SINGH

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EDUCATION

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

- **Relevant Coursework** Analysis of Algorithms, Database Systems

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

SKILLS

Frameworks/Libraries	Spring, React, Django, Kubernetes, Flask, MobX, MyBatis, Ethereum
Languages	Java, Python, Javascript, Solidity, SQL
Tools/Technologies	Amazon AWS SQS, SNS, S3, DynamoDB, Blockchain, Git, Linux

EXPERIENCE

USC Marshall School of Business *Los Angeles, USA*

Research Assistant   **Jan 2022-Present**

- Design a web scraper using Python, BeautifulSoup, multithreading, and proxy rotation to scrape data from websites with large data sets (45 million+ entries). Manipulate 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**

- 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.

Software Engineering Intern   **May 2019-Jul 2019**

- Overhauled the in-house job scheduling system, Batch. Rewrote a struts based app to a RESTful web service, along with UI overhaul, resulting in 50% faster operations and queries. Batch provided the users fine-grain control over the scheduled tasks by allowing them to create, update, hold, disable or clear jobs.

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

- Administered communication with sponsors and raised funding as **Deputy Director of Sponsorship** at Association of Indian Students(USC) for the Spring '22 semester
- Secured **First Position** in **Budding Hackers** category in **Arcesium Virtual Hackathon 2020**
- **Winner** of **HackTu**, an 18 hour hackathon in the annual technical fest Chakravyuh '19
- Lead a team 150 students as the **General Secretary** of **Creative Computing Society**
- **Global rank of 381** in **Google Kickstart 2019**, **6-star** on Hackerrank and **Expert** on Codeforces
- Awarded **Merit Scholarship** 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