

# KUNWAR PARTH SINGH

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## EDUCATION

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**University of Southern California**, Los Angeles **Jan 2022-Dec 2023**  
*Master of Science(Honors) in Computer Science, CGPA: 3.93/4.00*

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

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

## SKILLS

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

## EXPERIENCE

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**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**

- 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

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**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

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- **Honors Student**, with a **100% scholarship** for Spring 2023
- Regional rank 7 at **ACM ICPC Southern California Regional Contest 2022**
- **Teaching Assistant** for CSCI-430 Intro to Computer and Network Security for Spring 2023
- Secured **First Position** in **Budding Hackers** category in **Arcesium Virtual Hackathon 2020**
- 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