

Yash Gupta

Chandler, Arizona | 213-284-2985 | yash98g@gmail.com | [LinkedIn](#) | [GitHub](#) | [Google Scholar](#)

EDUCATION

University of Southern California, Los Angeles, CA || Master of Computer Science Jan'21-Aug'22
Courses: Database Systems, Machine Learning, Algorithms, Web Technologies, Applied NLP GPA:3.6/4.0

Guru Gobind Singh Indraprastha University, Delhi, India || Bachelor of Information Technology Aug'16-Jun'20
Courses: Data Structures, Computer Architecture, Cloud and Mobile Computing, DBMS, Operating Systems GPA:8.6/10.0

SKILLS

Languages: Java, Python, C/C++, Ruby, HTML5, CSS3, SQL, JavaScript, TypeScript, Swift.

Technologies and Methodologies: GCP, AWS, MySQL, PostgreSQL, MongoDB, OOPS, Big Data, XML, JSON, REST APIs.

Tools: iOS, Android, Web Development, Ruby on Rails, Flask, React, Angular, Express, NodeJS, Kubernetes, Docker, Git.

WORK EXPERIENCE

Cloud Software Development Engineer, Intel Corporation, AZ, USA. Aug'22–Present

- Played a key role in the successful launch of Intel Xeon CPUs: SPR, EMR, SRF, GNR, CWF
- BW4HANA Expert: Scale up, debug, and optimize SAP Benchmarks performance on Intel platforms (SPR, EMR, GNR, SRF) to strengthen Intel's business, giving Intel an edge over competitors to position well doing business with OEMs and CSPs.
- Work/collaborate closely with OEMs like MSFT, AWS, Fujitsu to scale SAP BW4HANA performance to pass SAP certification KPIs crucial for their cloud offerings and getting Intel business worth over 100 million dollars.
- Contributed to Intel Innovation GNR F2LM demo running SAP HANA TPC-H workload on the GNR system.

Summer Analyst Intern, Goldman Sachs, TX, USA. Jun'22–Aug'22 [3 Months]

- Engineered Goldman Sachs data modeling platform called 'Legend'.
- Wrote and deployed 'firstNotNull', and 'parseDate' functions to Legend platform to improve its SQL integration.
- Communicated platform workflow & documented confluence pages to streamline user development & debugging while learning data engineering business units & data modeling best practices, helping resolve keystone & JIRA tickets.

Graduate Technical Intern, Intel Corporation, CA, USA. Jan'22–May'22[5 Months]

- Improved system performance by analyzing software and hardware settings.
- Define new-unique use cases for Intel hardware features in software to improve performance or total cost of ownership.

Machine Learning Research Assistant, USC Marshall Business School, CA, USA. Mar'21–Aug'21 [6 Months]

- Wrote Python scripts to web scrape patents to create MongoDB database of 50,000 patent records.
- Executed Latent Dirichlet Allocation (LDA) and Hierarchical Dirichlet Process (HDP) topic modeling techniques in NLP.

Data Science Research Assistant, USC Information Sciences Institute, CA, USA May'21–Jul'21 [3 Months]

- Using Twitter Streaming API, Tweepy, and Twython libraries, programmed python scripts to create MongoDB DB of trending Twitter tweets, performed sentimental analysis, and visualized Network Flow Graphs leveraging canvas.js.

Software Engineering Intern, United Nations (UN OICT), Delhi, India June'19-Aug'19; Jun'20–Dec'20 [9 Months]

- Led and Delivered Angular-NodeJS web app for UNICEF and the Indian government with 50,000 active users, utilizing MapReduce and caching techniques on the back end to reduce latency, cost, and network API requests by 12%.
- Communicated with Country Head at UN Innovations and Solutions to present and deliver the application.

Software Application Engineering Intern, Max Healthcare, Delhi, India Mar'20–Jun'20 [4 Months]

- Implemented new lab features and database models using Ruby on Rails and SQLite.
- Added secure HL7 standard to JS/front-end UI to display everyday records and optimize email and SMS communications.

Teaching Assistant, Coding Ninjas, Delhi, India Jan'19–Jun'19 [4 Months]

- Co-mentored 60 web development students, organized hackathons, quizzes, and workshops for Web Dev Node.js batch.

Data Analyst Intern, Ernst & Young (EY), Delhi, India

Jun'18–Aug'18 [3 Months]

- Utilized Tableau, MSFT Excel, and Python to analyze microeconomic models of India and China. Recommended solutions to enhance Ease of Doing Business enforcing WTO Free Trade Agreement for Indian Govt.

PROJECTS

Machine Learning and Google Cloud Platform: Google Safest Path, Self-initiated project

- Performed Random Forest Machine Learning algorithm. Queried Google Places and Maps APIs for additional metrics.
- Utilizing HTML5, CSS3, and JavaScript, designed an interactive front-end user interface (UI) for tracing the route on Maps.

Web Development: Enterprise Resource Planning Software, Project for undergraduate college, ERP department.

- Received a Letter of Appreciation from the Principal for developing a user-friendly and transparent user-admin application using Ruby on Rails, React, and SQLite. Automated the college recruitment process and reduced application processing time by 50%.

E-commerce Website: Kuber Emporio, Self-initiated project.

- Designed and programmed a user-admin E-commerce website employing MVC architecture, Ruby on Rails, SQLite, HTML, Flex, CSS, JavaScript, Web sockets, and the Razor pay payment gateway.

Web Development, and Alexa Voice Assistant: Get Together, Project for Stanford Tree Hacks 2021 Hackathon

- Developed a full-stack web application with Alexa voice assistant integration that utilizes React.js, Google Maps API, and AWS-hosted MongoDB database to promote local events based on user location.

PUBLICATIONS

- Estimating sustainable location for harvesting solar power using GIS and remote sensing methods (JIOS, Taylor & Francis)
- Real-time monitoring using AJAX and Web sockets (JSMS, Taylor & Francis)
- Preventing Waiting List Manipulation and Black Marketing of Donated Organs Through Hyperledger Fabric (IEEE Xplore)
- Intelligent Photovoltaic panels based on solar tracking (JIOS, Taylor & Francis)
- Optimizing Fast Fourier Transform (FFT) Image Compression using Intelligent Water Drop (IWD) Algorithm (IJIMAI)
- SafeNav: Enhancing Safety in Urban Navigation through Route Optimization (ICCNS, IEEE Xplore)

ACTIVITIES

Conference Reviewer: Reviewed/Judged ~200 technical conference/journal papers in Cambridge University Press, SIGCSE TS 2023, ICCNS 2024, DTTC 2024, EGOV 2024, etc.

Speaker/Workshop: Guest Speaker/Lecturer at ASU, USC, IIT, GDG-New Delhi, Invited as Industry Expert to speak about Generative AI, Judge for Arizona Science and Engineering fair 2023-2026, Executive team member for Google Developers Group Phoenix.

Hackathons: Winner of Stanford Tree Hacks 2022, 2021, Hack UTD 2021, Hack USC, Smart India Hackathon 2018.

Awards: Notable Alumni of BVCOE, GGSIPU.

MEDIA RECOGNITION

Recognized in India's largest English daily newspapers - [Education Times](#), [Times of India](#) - 13.5 M daily readers - for expertise in software engineering, AI, and advanced semiconductor technologies.