HARSH KHUBCHANDANI

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EDUCATION:

University of Southern California **Los Angeles, CA**

B.S. - Bachelor's in Computer Science and Business Administration: Minor in Cloud computing with DevOps *December 2025*

Honors: USC's Dean list (All semesters), Alpha Lambda Delta (USC's honor society);

Relevant links: GitHub | LinkedIn

Relevant Coursework: Data structures and algorithms, Cloud computing with Dev ops, Discrete math, Linear algebra, Object-oriented programming, Principles of software engineering, Data Validation, and Business Valuation modelling

SKILLS:

Programming Languages:	C++, Java, Python, JavaScript, SQL, HTML, CSS
Frameworks/libraries:	Pytorch, Scikit learn, TensorFlow, NumPy, Pandas, React.js, Node.js, Jest, MOCHA
Tools:	Git, GitHub, VSCODE, DBeaver, JIRA, Kubernetes, Docker, Bitbucket, POSTMAN
Database:	PostgreSQL, MySQL, PHPMyAdmin

PROFESSIONAL EXPERIENCE:

Meta **New York, NY**

Software engineer intern *May. 2025–Aug. 2025*

- Developed an internal debugging tool for the Meta AI app's login flow on Kotlin and Swift, streamlining issue identification
- Implemented backend services in PHP to support tool functionality and enable seamless integration with existing systems.
- Engineered a logging instrument to capture**,** store**,** and query diagnostic data, improving visibility into login flow issues.
- Designed and deployed an interactive dashboard to visualize tool-generated data, enabling faster root cause analysis.
- Partnered with XFN teams to scale tool adoption, finding core login flow errors and increasing debugging efficiency.
- Wrote 5000+ lines of production code across 45+ diffs aided with a technical design document using Figma and Excalidraw.

ASML **San Diego, CA**

Software engineer intern (ML/AI) *Jun. 2023–Aug. 2023*

- Led scanner team of 5 other interns that focused on improving efficiency of Tin droplet scanner and cameras by 5%
- Analyzed data generated by metrology systems using TensorFlow image recognition to improve tin droplet detection
- Developed distributed, multi-tiered systems for data analysis in lithography systems, improving system efficiency by 5%.
- Collaborated with the embedded software team to enhance and maintain the python codebase of the lithography systems
- Automated testing and validation of machine learning models using Python on both Windows and Linux systems.

Powerweave **Mumbai, India**

Software engineer intern *May. 2022–Jul. 2022*

- Built and maintained a **multi-tiered** B2B e-commerce platform with integrated relational databases (PostgreSQL).
- Implemented time series RNN's using PyTorch trained on historic traffic data to a webpage to help predict future traffic
- Implemented Apriori algorithm to understand returning purchases and increase retention using data visualization by 15%
- Acted as a key troubleshooter to fix high priority bugs in the ewiz platform using debugging tools like GDP and Val grind

Practo **Mumbai, India**

Software engineer intern *Feb. 2022–Apr. 2022*

- Aided in developing a React tool to allow doctor consultations and find the closest doctor according to the location
- Leveraged PostgreSQL databases in the healthcare platform to facilitate the secure storage of critical patient information
- Conducted analysis of PSQL queries to identify performance bottlenecks resulting in 15% reduction of query execution time
- Assisted the quality assurance team in identifying test cases to enable a concise functional test of developmental deliverables
- Created parallel testing scripts using MOCHA for querying and updating of data which lead to 12% decrease in testing time.

PROJECTS:

ASML "Concepts" project management web tool Present

- Engineering a web tool for project management that uses microservices and RESTful API principles, hosted on AWS RDS
- Created stored procedures using PostgreSQL to extract project data and Redis to cache leading to 82% runtime improvement
- Implementing deployment of the web app through a Kubernetes cluster and Docker containerization hosted through EC2

Postcard exchange social website | Website | Source code *May 2024*

- Designed a scalable distributed system to handle real-time postcard sharing between users across different regions, integrating relational databases (PostgreSQL) for secure and efficient data management.
- Built multi-threading through a web-socket that allows users to view recent activities live through a TCP connection
- Created the Gallery from our Object storage that uses a CDN to cache the postcards close to users achieving cache hit of 80%