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HARSHIT KUMAR JAIN

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EDUCATION

Masters in Computer Science, GPA: 4.0 **University of Southern California (USC)** **January 2023-Present**
Coursework: Analysis of Algorithms, Database Systems, Web Technologies, Data Management, Scientific Computing
Bachelors in Engineering, CGPA: 8.06 **K L University** **April 2017**

SKILLS

C++, Python, Java, JavaScript | Angular, React, Node.js, Express.js, HTML5/CSS, Flask, Django, Bootstrap, REST APIs | MySQL, MongoDB, DynamoDB, Firebase, Google Cloud Platform (GCP), AWS | Git, VS Code, Xcode, Eclipse, IntelliJ, AutoCAD, PySpark, Jira, MATLAB, Plotly, Beautiful Soup | Agile

EXPERIENCE

University of Southern California, Los Angeles **Teaching Assistant** **August 2023-Present**
- Instructing 310 students in Java app development with a focus on concurrency, animations, web integration, and databases.

Dottwav, Los Angeles **Software Engineer Intern** **May 2023-June 2023**
- Enhanced song loading speed by 10% on Dottwav's music platform by optimizing the mobile app.

Shantial and Company, India **Software Engineer** **May 2017-December 2022**
- Engineered Angular web app, yielding 20% user engagement and 10% revenue growth in initial 6 months.
- Integrated front-end with Node.js back-end, achieving 25% faster response times and a 20% rise in user satisfaction.
- Built and deployed a Node.js-based RESTful API, slashing response times by 25% and elevating user satisfaction by 15%.
- Guided development team in enhancing web app performance with Angular, reaching target of 30% faster page load.
- Collaborated on a team to refactor codebase, reducing bug-related delays by 40% and enhancing overall code quality by 25%.
- Developed & executed unit/integration tests for web app, cutting bug-related delays by 30%, enhancing code quality by 15%.
- Led stakeholder collaboration on tech roadmap, aligning engineering with company goals for a 40% increase in team efficiency.
- Directed Agile framework adoption to ensure seamless, nonstop application development and optimal cross-team collaboration.

GM Modular, India **Software Engineer Intern** **May 2016-August 2016**
- Championed development and maintenance of web applications leveraging Angular, HTML, CSS, and JavaScript technology stack.
- Teamed up with colleagues to design and implement new User Interfaces, resulting in a 25% improvement in user experience.
- Contributed to projects involving the integration of third-party libraries and RESTful APIs, enhancing functionality and efficiency.

Shantial and Company, India **Software Engineer Intern** **May 2015-August 2015**
- Worked on building user-friendly interfaces with cross-functional teams, achieving a 10% increase in customer satisfaction.
- Designed and developed page layouts, custom navigation, animation buttons, and icons to enhance overall user experience.
- Ensured meticulous documentation of work and written code for comprehensive record-keeping and future reference.

PROJECTS

Event Search Website
- Developed a dynamic event search website enabling users to discover Ticketmaster events.
- Spearheaded backend using Node.js and Express.js to build robust, scalable server apps.
- Created intuitive, responsive UI with Angular, and Bootstrap for seamless UX.
- Integrated APIs like Ticketmaster, Google Maps and Spotify to enrich event info.
- Executed a project that yielded valuable industry-level full-stack development experience.

NaiveDB Database System
- Engineered a Python-based database system with CRUD, aggregation, order by, group by, and inner join functionalities.
- Designed a user-friendly query language, optimizing memory usage by loading datasets in manageable chunks.
- Implemented external merge sort for effective dataset ordering and inner join functionality across multiple tables.
- Applied external merge sort for efficient ordering of datasets, ensuring optimal performance with large data volumes.

Event Finder iOS App
- Managed end-to-end development of Event Finder iOS app enabling effortless event search on Ticketmaster.
- Leveraged Swift and Xcode to craft app's functionality and user interface, resulting in a seamless and enjoyable UX.
- Integrated location-based features with SwiftUI and Google Maps for discovering nearby events.
- Employed JavaScript and Node.js with Express for backend development of app.

HONORS

- **MS Honors Program Scholar 2023-2024:** Attained exclusive MS Honors Student status at USC, a prestigious recognition reserved for a highly select group of students, underscoring exceptional academic achievement and outstanding performance.

ACTIVITIES

- **Tournament Team Player – Trojan Tennis Club:** Represented USC officially at the Club level in USTA OnCampus Tennis, actively engaging in competitive play and contributing to team success.
- **Deputy Director – Publicity Domain**: Handling the social media platforms for the Association of Indian Students at USC.
- **Vice President – Tennis Youth Association**: Executed and spearheaded quarterly Tennis tournaments, overseeing a 15-member team, adeptly delegating tasks, and meticulously orchestrating the planning process for 20+ teams nationwide.
- **Core Committee Youth - Jain International Trade Organization:** Planned events and increased the engagement rate by 20%.
- **Mentor, Spring 2023:** Guided and mentored 2 incoming students to ease their transition and enhance their academic experience.