KRITI SHUKLA

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EDUCATION

University of Southern California, Los Angeles, CA
Master of Science in Computer Science — *GPA: 3.92/4.0*
Coursework: Operating Systems, Computer Networks, Algorithms Analysis, Databases, Information Retrieval

National Institute of Technology Karnataka, India — May 2022
Bachelor of Technology in Mechanical Engineering and Computer Science (minor) — *GPA: 9.65/10.0*

SKILLS

Languages: Java, Python, C, C++, HTML, CSS, JavaScript, MATLAB, SQL
Tools and frameworks: Git/GitHub, Linux/Unix, VS Code, React.js, Node.js, AngularJS, Postgres, Tableau, AWS, Agile, Front-end Web Development, MS Office, AutoCAD, LaTeX, WordPress, Canva, Computer Vision

EXPERIENCE

Software Engineering Intern | *medibles.io, Los Angeles* — Jul 2023 – Present
- Developing an AI chatbot for the BioMed startup; adeptly engages users, leading through a coherent sequence of questions, responses, and actions, ultimately guiding towards a purchase.

Software Engineering Intern | *LISUS Energy, Los Angeles* — Jun 2023 - Jul 2023
- Analyzed remote-sensing satellite data (Evapotranspiration), involving extraction, processing, and temporal analysis, contributing to a tool for sustainable exploration of critical minerals.

Project Intern | *Large Power Systems Division, Caterpillar Inc., India* — May 2021 - Jul 2021
- Rectified Ignition Delay Prediction discrepancy within company's software, improving engine failure analysis.
- Collaborated in a team of 3 to build an Ignition Delay Prediction Model for Compression Ignition (CI) engines using Python and Cantera.
- Streamlined code for >50% runtime cut, elevating program efficiency and analysis capabilities.

Web Development Team Lead | *Virtual Labs, National institute of Technology Karnataka, India* — Nov 2020 - Jan 2021
- Spearheaded a team of three to ideate and create 12 interactive simulations focusing on Engineering Thermodynamics concepts, utilizing HTML5, CSS3, and JavaScript.
- Enhanced educational accessibility by creating online tools for remote Thermodynamics learning, catering to diverse students, fostering engaging, hands-on exploration and comprehension of theory.

PROJECTS

Web Development Projects — Dec 2022 - Jul 2023
- Built diverse Web Development projects, including an image filter webpage with customizable backgrounds, an entertainment organization website, and digital renditions of Rock Paper Scissors and Tetris games.

Meeting Scheduler application using Socket Programming — Mar 2023
- Achieved optimal meeting scheduling capabilities by implementing a system using C/C++ on Unix, leveraging backend (UDP connection) and main (TCP connection) servers to identify meeting times for participants based on availability.

Single Track Deposit geometry prediction using Machine Learning — Jan 2022 - Apr 2022
- Led team of four to develop ML models (98 % accuracy) predicting Laser Directed Energy Deposition's single-track deposit geometry, enhancing additive manufacturing product quality.

HONORS AND AWARDS

Gold Medal for achieving highest GPA among 174 students in bachelor's degree program; Best Outgoing Student Award by National Institute of Technology Karnataka Alumni Association (2022).

LEADERSHIP AND VOLUNTEER EXPERIENCE

- Viterbi Graduate Orientation Leader, USC Women in Engineering Website Creator and Manager, Viterbi Student Engagement Team Social Media Manager: Leading initiatives fostering student integration, diversity, and engagement.
- Volunteer, Water Drop LA; USC Viterbi SHINE Program Mentor; High-school Tutor: Supported community welfare, guided K-12 STEM students, and facilitated high school learning.
- Content Writer and Team Lead, HackVerse: Managed 7-member team, overseeing content and logistics for a 700+ participant hackathon.
- Public Speaking and Leadership Trainer; Elementary School Tutor: Mentored students in public speaking, leadership, and provided elementary education.