

# KRITI SHUKLA

+1 213-414-8056 | [kas140472.github.io/myWeb](https://kas140472.github.io/myWeb) | [linkedin.com/in/kriti-shukla-258396182/](https://linkedin.com/in/kriti-shukla-258396182/) | [kritishu@usc.edu](mailto:kritishu@usc.edu)

## 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.