

Shreya Gundu

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EDUCATION

- **University of California, Davis** California, USA
Master of Science in Computer Science, **CGPA: 3.72/4** Fall 2022 - 2024 (expected)
- **Indian Institute of Technology Bhilai** Raipur, India
Bachelor of Technology in Computer Science, **CGPA: 8.72/10** July 2018 - May 2022

SKILLS SUMMARY

- **Languages:** C, C++, C#, Python
- **Web Development:** HTML, CSS, JavaScript, NodeJS, React, Express, MongoDB, SQL, Material UI, TypeScript
- **Miscellaneous:** Solidity, AWS, ML, AI, Deep Learning, Git, Tableau, Shell, PyTorch, UNIX, TCP/IP, Wireshark

EXPERIENCE

- **Software developer at DMLab** Oct 2021 - May 2022
Part-time
 - Developed and implemented a responsive and user-friendly UI for a video call application, enhancing the overall user experience and accessibility.
 - Utilized the Posenet library to seamlessly track and monitor live patient exercises during video calls, ensuring real-time data collection for accurate analysis.
 - Established robust data pipelines to efficiently process and analyze exercise data, resulting in streamlined workflows and improved data-driven insights.
 - Helped drive a 65% surge in user engagement while cutting monitoring costs by 20% and received recognition from Lionel Messi's physical therapist

PROJECTS

- **Graduate Student Researcher at UC Davis** June 2023 - Sept 2023
Supervisor- Dr. Laura Marcu
 - Improved overlay detection for cancer cells as part of the "FLImBrush: dynamic visualization of intraoperative free-hand fiber-based fluorescence lifetime imaging" project.
 - Play a pivotal role in the project's architecture, leveraging a block-matching algorithm to pinpoint motion vectors.
 - Conduct a comprehensive test of a range of techniques, such as Exhaustive Search, Adaptive Rood Pattern Search, and Zero Mean Normalized Cross-Correlation scores to assess their efficiency.
 - Investigate the incorporation of NVIDIA optical flow to elevate motion correction precision, anticipating a 30% enhancement.
- **NFT Marketplace** Oct 2022 - Nov 2022
Course Project
 - Led a team of 6 to design and implement a Resource-efficient NFT Marketplace on Ethereum Amazon Web Services using Solidity, overseeing end-to-end development and personally contributing to the creation of smart contracts
 - Integrated seamless user authentication and implemented secure Ethereum wallet connectivity for frictionless transactions.
 - Achieved an exceptional (A) rating for usability and implementation, underscoring adept leadership and accomplished project oversight.
- **fybrrStore: A Distributed File Storage** Feb 2022 - May 2022
Supervisor - Dr. Gagan Raj Gupta, Associate Professor, Dept. of EECS, IIT Bhilai
 - Implemented a distributed file system with a centralized search index and metadata integration and deployed it using AWS Elastic Beanstalk.
 - Developed custom file pinning service to keep files available and redundant at all times.
 - Optimized load balancer configuration for a 15% improvement in latency using Grafana K6 load testing.
- **fybrrChat Lite: A Distributed Chat Application for Secure Messaging** Jul 2021 - Aug 2021
fybrrchat-lite.web.app/ - Not Maintained
 - Proposed an IPFS and WebRTC-based decentralized secure chat application which implements end-to-end encryption for the secure transfer of messages between peers.
 - Results show fybrrChat Lite works 97% faster than WhatsApp.
 - Received **Honorary Mention** in IEEE Global ComSoc Student Competition 2021.

PUBLICATIONS

- D. Halder, S. Bhushan, **G. Shreya**, and P. Kumar, **fybrrChat: A Distributed Chat Application for Secure P2P Messaging**, Jul 2022, IEEE Global Communications Conference 2022.