

Grace Lewis

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EDUCATION

The University of Utah, Salt Lake City, UT

May 2026

Masters of Science, Computer Science

- Coursework: Graduate Algorithms, Visualization for Data Science, Human Computer Interaction, Manage Data for and with Machine Learning, Operating Systems, Visualization for Scientific Data.

University of Mumbai, Mumbai, India

May 2024

Bachelor of Engineering, Computer Engineering (Honors in Data Science)

CGPA 3.78

TECHNICAL SKILLS

Data Analysis: Python, MySQL, R, MongoDB

Data Visualization: Power BI, Tableau

Web development: HTML, CSS, JavaScript, PHP, Bootstrap

Other: MS Office (Excel, Power Point), AutoCAD, Microsoft Azure, AWS (Amazon Web Services)

PROFESSIONAL EXPERIENCE

ITECH Digital Forensics, Mumbai, India

June 2022 – August 2022

Project Development Engineer

- Resolved technical issues and enhanced website responsiveness, leading to a more seamless and user-friendly browsing experience.
- Created a user-friendly E-Commerce website using HTML, CSS and Bootstrap to display and sell the company's products, automating the order processing system.
- Assisted in migrating the existing website to AWS, ensuring a seamless transition with a 15% improvement in load times and increased site reliability.

ACADEMIC PROJECT EXPERIENCE

FortiShare: A Predictive Cloud File Sharing System for Detecting Intrusions, DBIT

July 2023 – May 2024

Tools Used: MongoDB GridFS, Python, NodeJS, HTML, PHP

- Developed a cloud-based file sharing system using AES and RSA encryption, enhancing data security.
- Optimized encryption results with image encryption time as low as 0.128 seconds, ranging up to 13.125 seconds for videos in GB, enhancing data security without compromising speed.
- Implemented vulnerability detection and threat prediction using Convolutional Neural Networks (CNN), detecting XSS attacks with an accuracy of 98.5%.

SafeU: SOS Android Based Application, DBIT

August 2021 – May 2022

- Developed the SafeU Android app using Java and Android Studio, featuring automated SOS alerts, real-time location sharing, and discreet audio recording, improving user safety and response time by 30%.
- Designed a user-friendly interface with Figma and integrated Google Maps API for live location tracking, allowing users to send updates every 3, 5, or 10 minutes, enhancing emergency response effectiveness by 40%.

PUBLICATIONS

S. Rebello, S. Sunil, G. Lewis and S. Shaikh, "FortiShare: A Predictive Cloud File Sharing System for Detecting Intrusions," *2023 6th International Conference on Advances in Science and Technology (ICAST)*, Mumbai, India, 2023, pp. 405-410, DOI: 10.1109/ICAST59062.2023.10454961.

LEADERSHIP AND EXTRACURRICULARS

Association of Computing Machinery (ACM) - DBIT, Core Team

August 2021 – May 2024

Student Council - DBIT, Sports Secretary

August 2022 – May 2023

ACM - DBIT Girls4Impact, Teaching Volunteer

October 2021 – Jan 2022