Monisha Mekala

San Francisco, CA | (628) 246-6409 | mvn.monisha@gmail.com | LinkedIn | Github |AWS Certified

EDUCATION

San Francisco State University — **San Francisco, CA**
Master of Science, Computer Science — August 2023 – May 2025
GPA: 3.83
Coursework: Analysis of Algorithms, Cloud Technologies, Software Engineering, Operating Systems, Machine Learning

Visvesvaraya Technological University — **Bangalore, India**
Bachelor of Science, Information Science & Engineering — August 2018 - July 2022
GPA: 3.62
Coursework: Data Structures & Algorithms, Database Management Systems, UNIX/Linux, Distributed Systems, Artificial Intelligence

ACCOMPLISHMENTS

- Amazon Web Services - AWS Certified Cloud Practitioner

SKILLS

Languages & Frameworks:	C++, C#, Python, Java, Go, Flask, Express, Bootstrap, Spring Boot, NumPy, Matplotlib
Web Technologies:	HTML5, CSS3, PHP, JavaScript, Node.js, React.js, REST, AngularJS, Ajax, API, Express.js
DevOps Tools:	Git, Kubernetes, Docker, Jenkins (CI/CD), Ansible, Nginx, Selenium, JUnit
Database:	MySQL, NoSQL, MongoDB, PostgreSQL, PL/SQL, Cassandra, DynamoDB
Cloud Platforms and Tools:	AWS EC2, Azure, GCP, JIRA, Visual Studio, Eclipse, Spyder, MATLAB, Ubuntu

PROFESSIONAL EXPERIENCE

Web Development Intern, Associated Students of SFSU, San Francisco, CA — December 2023 - Present

- Deployed and maintained cloud infrastructure using AWS EC2, RDS, AMI, and Auto-scaling, ensuring high availability
- Monitored and optimized cloud resource usage, cutting infrastructure costs by 10% while maintaining performance standards
- Streamlined development using Docker containers and automated load balancing on EC2 instances, reducing deployment time by 30% and enhancing system reliability to handle 20% more traffic

Senior Software Developer, Larsen & Toubro Infotech, Bangalore, India — July 2022 - August 2023

- Engaged in agile process and Scrum activities with a team of 3 and project lead to define software features for Marsh McLennan
- Piloted a Proof of Concept (POC) utilizing innovative 'ACTS' tool to streamline test scenario generation, leading to a 40% reduction in manual testing efforts and a 30% enhancement in testing coverage
- Improved bug resolution efficiency by 30%, elevating software quality and client satisfaction

Full Stack Web Development Intern, Smart Desert Academy, Bangalore, India — September 2021 - October 2021

- Collaborated on an e-commerce website project using Flask, JavaScript, and SQLite, conducting performance evaluation resulted in a 20% reduction in website loading time and a 30% increase in user engagement metrics

Web Development Intern, Code13 edtech Private Limited, Nagpur, India — April 2021 - June 2021

- Led a team of 8 to develop and launched a marketing website, increasing traffic by 25% and streamlining customer engagement
- Teamed with senior developers to enhance workflow and user experience, cutting development time by 15% through analytical skills and problem-solving
- Upgraded website's administration panel leveraging Object-oriented programming (OOP) principles and Containerization, increasing capacity to accommodate 300 concurrent users

ACADEMIC PROJECTS

Food Ordering Web Application

- Directed a five-member team in backend development, CSS animations, AWS deployment, and Twitter API integration. Showcased strong communication and attention to detail throughout Software Development Lifecycle (SDLC)
- Incorporated website responsiveness with responsive design, improving page load speed by 40%. Designed secure database schemas following security best practices
- Applied data-driven techniques and design patterns, advising team on efficient version control practices to minimize git conflicts. Earned 20 additional points by presenting on bug fixing, testing, debugging, and best practice

Early Detection of Alzheimer's Disease with Blood Plasma

- Led a team of 4 in developing a Bi-RNN for Alzheimer's disease detection. Individual focus on algorithm building and dataset issues, including data preprocessing and feature engineering
- Achieved 92% accuracy on a 13,500-record dataset from ADNI by applying machine learning techniques
- Resolved data imbalance and overfitting issues, boosting prediction accuracy by 20%. Managed project timelines, maintained quality documentation, and conducted code reviews