

Girija Reddy

[Portfolio](#) | +1 (716)-800-2021 | girijareddy945@gmail.com | [GitHub](#) | [LinkedIn](#)

EDUCATION

University at Buffalo , Buffalo, NY	GPA 3.5/4.0
Master of Science in Computer Science	Jan 2022 - May 2023
Coursework: <i>Analysis of Algorithms, Machine Learning, Project Development, Database Systems, Modern Networking Concepts.</i>	
GITAM University , Bengaluru, India	GPA 3.7/4.0
Bachelor of Technology in Electronics and Communication Engineering	Aug 2016 - May 2020.
Coursework: <i>Data Structures & Algorithms, Object Oriented Programming through C++, Java, Operating Systems, Design and Analysis of Algorithms, Computer Organization & Architecture.</i>	

TECHNICAL SKILLS

Languages and Frameworks:	C, C++, Java, Python, Node.js, React.js, Redux, Express
Databases:	MySQL, MongoDB, PostgreSQL, Redis
Web Technologies:	HTML5, CSS3, Bootstrap, GraphQL, Rest API, Apache Kafka, PHP
Tools:	Git, Visual Studio Code, Eclipse, JIRA, JMeter, Mocha, Google Collab, STS, IntelliJ.
Deployment:	AWS Cloud, GCP, Docker, Kubernetes

WORK EXPERIENCE

Programming Assistant Moore Archive University at Buffalo, New York	Jan 2022 – Dec 2022
<ul style="list-style-type: none">Utilized XML, HTML, CSS, and JS to enhance the website's UI, including the Notebook Viewer for easy access to Moore's works.Employed XSLT, XQuery, and XPath for data manipulation and organization of Marianne Moore's works.Applied Python for various backend tasks and automation and Implemented OCR tools for digitization of Moore's works.Utilized TimelineJS for creating interactive timelines on the website.	
Programmer Analyst Cognizant Bangalore, India	Dec 2020 - Jan 2022
<ul style="list-style-type: none">Collaborated with a team of 5 members and worked on the development of an E-learning web application using the MERN stack.Spearheaded functionalities like a user-specific dashboard, study mode, exam mode, and quiz sections. Itemized marked courses as favorites for easy accessibility and a search field for filtering the course content that responds under 300ms.Debugged core dumps, memory leaks, and multithreading issues using GDB to resolve time-sensitive production issues.Remodeled the application dashboard, study, and exam mode sections by resolving 15+ defects with 0 escalations and client issues.Leveraged Spring Boot's security module and Actuator for a 20% boost in issue resolution speed and stronger application security using OAuth2.0 and JWT.Increased user experience and database efficiency by 15% by using Spring Boot's embedded Tomcat and Data JPA to reduce load times and boilerplate code.	

PROJECTS

Developers Community (ReactJS NodeJS MongoDB MySQL Apache Kafka Redux AWS Rest API Redis).
<ul style="list-style-type: none">Designed an interactive chat system, initiated modules like posts, bookmarks, and utilized NGINX to improve security by 50%.Deployed 3-tier distributed app with message queues as middleware and scaled to handle a load of 10,000 questions simultaneously.Expedited Redis for the faster response time (15-30%) on the pages and React.js (<i>frontend</i>), Node.js (<i>backend</i>), and Redux to manage the workflow of frontend data, databases in AWS RDS, JUnit Testing, and AWS deployment.
Dancestry / Choreographic Lineage (HTML CSS JavaScript ReactJS PHP Python NodeJS)
<ul style="list-style-type: none">Worked on establishing a comprehensive Dance Lineage network between dancers and choreographers.Implemented login mechanism through social media and an image retrieval system that utilized multiple APIs calls.Improved the user experience and optimized the website to be highly responsive across a range of devices and web browsers.
My Music Taste Analysis (Python Spotify API Data Analysis Visualization Cluster Analysis)
<ul style="list-style-type: none">Scraped and cleaned data from my Spotify over 3 years to understand mood, music taste and artist preferences monthly.Performed cluster analysis with KMeans, Agglomerative, Affinity Propagation, BIRCH, DBSCAN, and Mini-Batch KMeans.Visualized patterns using calplot and radar plots and created tableau dashboards to get key insights of data.
Ecommerce Marketplace (ReactJS NodeJS MongoDB MySQL Kafka Redux AWS Rest API JMeter GraphQL).
<ul style="list-style-type: none">Developed a full-stack distributed prototype of the Etsy marketplace application scaled to handle over 10,000 users and products.Hosted application & database on the AWS cloud with MongoDB replica set clusters and handled fault tolerance for EC2 instances during partition of database servers and effective load balancing using AWS ELB & facilitated Redux for global state management.Devised Express, Node.js as a backend server, Kafka messaging queue for request-response cycle, Passport.js for authentication.