HASINI MIRYALA

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EDUCATION

Master of Science in Computer Science - *Texas Tech University* **Aug 2023 - May 2025**

Bachelor's in computer science - *Sreenidhi Institute of Science and Technology* **July 2019 - June 2023**

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, TypeScript, C++, C, HTML, CSS.

Technologies/ Frameworks: React, Node.js, Spring, Spring Boot, Tailwind, Bootstrap, Hibernate, Express, Redux, Tailwind, AWS, GCP, DevOps, Agile (Scrum), Microservices, Docker, Kubernetes, Jenkins, Angular, NextJs, Linux, Eclipse, Maven, jQuery, MVC, SVN, Kafka, Splunk, Embedded Systems, Hadoop.

Databases: MongoDB, SQL, MySQL, PostgreSQL, NoSQL, Amazon RDS, Oracle, MS SQL Server, SQLAlchemy, Slack.

API: RESTful, GraphQL, OAuth 2.0, AWS Lambda, Microservices, CI/CD, WebSocket

Cloud: AWS, GCP, AWS Lambda, DynamoDB, Cloud Run, Terraform, Azure, JSON, XML, Containerization.

Testing: Junit, Mockito, Selenium, Neo4J.

AWS: EC2, Lambda, S3, Route 53, CloudWatch, Glacier, Fargate, Cloud Run

EXPERIENCE

Software Developer: *Texas Tech University, Lubbock, TX* **Jan 2024 - Present**

- Developed and maintained full-stack applications using **React, Node.js, Java Spring Boot, and MongoDB**, improving performance by 30%.
- Implemented dynamic **React UI components**, cutting page load times by 35% and enhancing user experience.
- Managed **SQL and NoSQL databases** (MySQL, PostgreSQL, MongoDB), optimizing queries to reduce data retrieval time by 45%.
- Integrated **CI/CD pipelines** (Jenkins, GitHub Actions, GitLab CI), decreasing release cycle time by 60%.**in a high-volume, fast-paced environment**, ensuring timely resolution of **user concerns** and maintaining high **customer satisfaction levels**.
- Developed **firmware** enhancements, implemented **product improvements**, and leveraged **cloud computing** and **web services** to support **business strategies.** Built and deployed **containerized microservices** with **Docker**, **Kubernetes**, and **AWS Lambda**, increasing scalability by 50%.
- Implemented **JSP, OAuth 2.0, JWT authentication**, and **RBAC** to enhance application security. Employed profiling tools (New Relic, Postman, Chrome DevTools) for debugging, reducing critical errors by 50%.

Graduate Assistant: *Texas Tech University, Lubbock, TX* **Aug 2023 - Jan 2024**

- Provided **IT support and troubleshooting**, resolving **system lockouts, software issues, and maintenance requests**, ensuring seamless user experience, **compliance** and operational continuity, while engaging **with data ingestion, business reports** and the software development life cycle.
- Managed **front desk operations**, streamlining workflows and implementing **automated data entry solutions**, improving efficiency by **30%**.
- Ensured **data integrity and security** by maintaining **accurate resident records**, leveraging **SQL queries** for data retrieval and reporting.
- Assisted in **process automation** and **workflow optimization**, reducing manual efforts and minimizing **technical disruptions**.
- Provided tech support by troubleshooting technical issues, utilizing critical thinking and decision-making for risk management, ensuring effective communication, and aligning solutions with business objectives while addressing customer service.

Web Developer: *Internshala*, *Hyderabad*, *India* **July 2021 - July 2023**

- Developed and maintained end-to-end **scalable**, responsive web applications using **React, Redux, JavaScript (ES6+)**, and **Tailwind CSS**, ensuring a mobile-first, high-performance **UI** across devices indulged with cross-functional teams.
- Optimized **API** integrations with **RESTful** and **GraphQL** endpoints, improving data retrieval speed by 40% and ensuring seamless interaction with **Node**.**js**, **Express**.**js**, and **Microservices backends**.
- Enhanced database efficiency by implementing MongoDB indexing, **MySQL** query optimization, **Redis caching**, and **ORMs**, **enabling low**-**latency**, **high**-availability **data management** and **data modeling** through **strategic decision**-**making**.
- Boosted website performance by 45% through **lazy loading, code review, code splitting, image compression, CDN usage,** and **browser caching**, **driving transformation** in user engagement and prioritization of critical optimizations.
- Ensured cross-browser compatibility and accessibility using CSS media queries, Bootstrap, Lighthouse audits, **Web Accessibility** (**WCAG**) **standards**, and **SSR** for **SEO optimization**, **demonstrating strong problem**-**solving** and **decision**-**making skills**.
- Collaborated in Agile teams, leveraging **Git**, **GitHub**, **Jira**, **Trello**, **Docker**, and **Kubernetes** for version control, sprint management, CI/CD pipelines, and **DevOps practices**, while utilizing verbal and written communication skills to enhance team coordination and implement SEO best practices for visibility.

CERTIFICATIONS

AWS Cloud Virtual Internship: *AICTE, India*

- Completed a hands-on AI/ML virtual internship at AWS, developing and deploying predictive models and data pipelines that leveraged cutting-edge cloud services to boost accuracy, streamline operations, drive real-time insights, and manage project management.

Developing Back-End Apps with Node.js and Express: *IBM, India*

- Gained solid foundation in back-end development through data structures with a focus on scalable, secure web applications. The course provided hands-on experience in creating RESTful APIs, managing HTTP requests, and building efficient server-side logic with Express.

PROJECTS

Taskmaster Developed frontend, backend and deployed a secure, **highly scalable** To-Do application with **real-time synchronization** across devices using **WebSockets**. Implemented **JWT authentication and OAuth 2.0** for robust security, ensuring protected user access. Optimized database performance with **Redis caching**, reducing data retrieval time by 60%. Designed an intuitive, **mobile-responsive** UI with offline support using **IndexedDB**, enhancing accessibility. Utilized **Docker for deployment**, ensuring cross-platform compatibility. Applied best practices in **full-stack development, microservices, and API optimization** to deliver a **high-performance, cloud-ready enterprise solution**.

Enhancing Stock Movement Prediction Authored and published a research paper on enhancing stock price prediction using a **Transformer-based** model, replacing the **Co-CPC model** to improve accuracy by capturing complex **macroeconomic** dependencies. Conducted extensive experiments with **financial datasets**, optimizing hyperparameters and **epoch** settings for peak **performance**. **Applied data science techniques, automation solutions, and design patterns to enhance model efficiency.** Demonstrated expertise in deep learning, Transformer architecture, self-attention mechanisms, and time-series forecasting. Leveraged machine learning for predictive stability in **fintech applications**, **optimizing sequence modeling**, feature engineering, and loss function tuning to reduce training/validation **errors maintaining data architecture.**