Sai Lohith Panthangi

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Education

George Mason University — **Jan 2023 – Dec 2024**
Master's in Computer Science, ***CGPA: 3.93/4.0*** — *Fairfax, Virginia, USA*

Sreenidhi Institute of Science and Technology — **May 2017 – Apr 2021**
Bachelor of Technology in Computer Engineering, ***CGPA: 3.88/4.0*** — *Hyderabad, Telangana, India*

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- AWS
- Software Methodology
- Programming Tools
- Theory of Computation
- Software WWW

Experience

Tata Consultancy Services — **Aug 2021 – Jan 2023**
Systems Engineer, Full Stack Developer — *Hyderabad, India*

- Worked as a Systems Engineer(Full Stack Web Developer) for Verizon clients. Implemented full-stack solutions encompassing both front-end (JavaScript, ReactJs) and back-end (Java11, Spring) development.
- Innovated functional applications for wireline and wireless systems, integrating user friendly features like bookmarking, filters, and validations. Achieved a 30% increase in user engagement metrics through collaborative efforts.
- Revamped Type software by debugging over 500 lines of code per sprint, enhancing user interfaces, and optimizing functionalities. Reduced crashes by 40% and developed RESTful APIs with Spring Boot for smooth client-server communication.
- Actively participated in Agile teams, contributing to sprint planning (25 sprints), development, and retrospectives, which led to increased productivity and accelerated project delivery by 10%.
- Secured top 100 among 65,000 employees in the Digital Capability Assessment (DCA) conducted across INDIA by TCS organization, where secured a 100% hike in salary as a compensation reward.

Spectra Assistive Technologies — **Jan 2021 – Jun 2021**
Full Stack Web Development Intern — *Bengaluru, India*

- Designed pioneering user interfaces utilizing modern JavaScript frameworks, HTML, and CSS.
- Implemented responsive design practices resulting in a 40% increase in web app engagement and a 25% boost in user retention.
- Collaborated with cross-functional teams to integrate RESTful APIs, enhancing the application's functionality and ensuring seamless data flow between the frontend and backend systems.
- Optimized application performance by implementing lazy loading and code splitting techniques, reducing page load times by 30%.

Projects

Full Stack Student Survey Web App Development | *Angular, Spring Boot, MySQL, JPA, RESTful* — **Apr 2024**

- Constructed a full-stack web application using Angular for the frontend and Spring Boot for the backend. Orchestrated Angular components and RESTful web services endpoints for CRUD operations.
- Integrated MySQL with JPA and JDBC for efficient database management and Empowered users with options for updating or deleting their survey submissions, enhancing control and user experience.

AWS based Dynamic Web App in Amazon S3 and EC2 | *HTML, CSS, Java Script, Ajax, Bootstarp* — **Mar 2024**

- Developed web application of personal portfolio, department page, and a student survey form. Hosted on Amazon S3 and EC2 instance for seamless deployment and bootstrap navigation.
- Enhanced survey form functionality with JavaScript for computation and validation. Utilized Ajax and JSON for automatic city/state population based on zip code input.

4S Navigation tool extension in VS Code | *Java, Typescript, Javascript, VS code* — **Nov 2023**

- Created the 4S Navigation Tool, an approved extension for Visual Studio Code. Integrated key functionalities including Go to Definition, Sub-word Search, and Stack Overflow Search.
- Reduced time spent on searching for specific functions, variables, or classes. Received a 5/5 rating on the Visual Studio Code Marketplace, showcasing the extension's effectiveness and user appreciation.

Breast Cancer Detection Using Meta-Learning and ANN | *Python 3, Random Forest, KNN, SVM, Perceptron* — **May 2022**

- Reached a classification accuracy of 92% on the Wisconsin Breast Cancer Dataset, outperforming existing benchmark models.
- Initiated with supervised and unsupervised learning models such as Random Forest, KNN, SVM, Logistic Regression, Perceptron, and feature selection.

Smart Surveillance using Computer vision | *Python 3, NumPy, skimage, OpenCV, Tkinter* — **Apr 2021**

- Nurtured surveillance accuracy by 30% through the integration of advanced ML algorithms, reducing false alarms, and increasing security effectiveness.
- Fostered image processing techniques for scene understanding, object tracking, and classification and reduced processing time for image analysis by 60%, enabling real-time monitoring of multiple surveillance feeds.
- Journal released in IJISRT. Volume 6, Issue 6, Jun 2021.

Technical Skills

Programming Languages: Python, Java, C, C++, HTML, CSS, JavaScript, Typescript, SQL
Web Technologies and frameworks: Spring framework, Bootstrap, React, Angular, Spring Boot.
AWS: EC2, S3, ECS/Fargate, RDS, DynamoDB, CloudFormation, Lambda.
Methodologies: SDLC, Agile.
Version Control: Git, GitHub.
Testing & Automation: JUnit, Selenium, QTest.
Databases and Servers: MySQL, MATLAB, JPA, JDBC, Hibernate.
Development and Versioning Tools: Spyder, Eclipse, Jupyter Notebook, WordPress, VS code, IntelliJ Idea.
Additional skills: Peer Code Reviews, Team Collaboration, Sprint Planning.

Technical Certifications / Papers

- AWS Certified Cloud Practitioner (May 2024 - May 2027).
- Certified in "Foundations of User Experience (UX) Design" by Google, through completion of an online certification course, 2024.
- Achieved a certification course on "Full Stack Software Developer Assessment", IBM, 2024.
- "A Hybrid Algorithm for Breast Cancer Detection Using Meta-Learning and ANN", Paper published in IJARESM, Volume 10, Issue 5, 2022.
- "Driver drowsiness detection using AI", research paper penned in IJARESM, Volume 10, Issue 5, 2022.