

# SAI LOHITH PANTHANGI

11105 Fairhaven Court, Fairfax, VA, USA, 22030

☎ 571-326-6009 ✉ [panthangisailohith2000@gmail.com](mailto:panthangisailohith2000@gmail.com) 🔗 [linkedin.com/in/sai-lohith](https://www.linkedin.com/in/sai-lohith) 🐙 [github.com/Sai-Lohith](https://github.com/Sai-Lohith)

## Education

### George Mason University

Master's in Computer Science, **CGPA: 3.93/4.0**

**Jan 2023 – Dec 2024**

Fairfax, Virginia, USA

### Sreenidhi Institute of Science and Technology

Bachelor of Technology in Computer Engineering, **CGPA: 3.88/4.0**

**May 2017 – Apr 2021**

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

Systems Engineer, Full Stack Developer

**Aug 2021 – Jan 2023**

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

Full Stack Web Development Intern

**Jan 2021 – Jun 2021**

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, ReactJS, Angular, Spring Boot, ExpressJS.

**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, MongoDB.

**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.