

SAI APARANJI NEMMANI

571-641-5925 | nsaiaparanji@vt.edu | Falls Church, VA | Portfolio: aparanji49.github.io/ | LinkedIn: in/saiaparanjinemmani

EDUCATION

Virginia Tech | Virginia, USA May 2025 (Expected)
Master of Engineering in Computer Science | GPA: 3.78/4 **Courses:** S/W Eng, User Interface Software, Data Structures & Algorithms, Web App Development & Cloud Computing

Vidya Jyothi Institute of Technology | Hyderabad, India August 2020
Bachelor of Technology in Computer Science | GPA: 3.67/4 **Courses:** Object-Oriented Programming, Linux, Databases

SKILLS

Languages: Java, Python, C, SQL, PostgreSQL, JavaScript, HTML 5, CSS 3
Libraries/Frameworks: ReactJS, JUnit, Bootstrap, jQuery, DASH, Selenium, TestNG
Developer Tools: GitHub, VS Code, PyCharm, Eclipse, JIRA, Balsimiq, IntelliJ, Figma, Git, Firebase, Node JS
Cloud Technologies: AWS (EC2, Lambda, VPC, RDS, EMR, IAM, API Gateway, CloudWatch, S3, Route 53), Azure DevOps (CI/CD Pipelines), Google Cloud Platform
Certifications: Oracle Certified Associate, Java SE 8 Programmer (February 2020)

EXPERIENCE

Virtusa | Hyderabad, India February 2022 – July 2023
Engineer - Technology October 2020 – January 2022
Associate Engineer - Technology

- Automated **78%** of regression test cases using Virtusa Test Automation Framework (VTAF) and SELENIUM with JAVA, improving testing efficiency and reducing manual workload.
- Troubleshooted failures and enhanced **83%** of existing test scripts in Eclipse IDE, addressing issues to improve overall functionality and reliability.
- Modified and Scheduled Azure DevOps pipelines, aligning QA processes with release details to streamline monthly application releases, thereby enhancing efficiency in CI/CD.
- Led a team of 2 and authored comprehensive documentation for Azure DevOps pipelines and end-to-end test automation processes, offering clear guidelines for team members.

PROJECTS

Enchanted Pages | HTML, CSS, React JS, Typescript, Axios, RESTful APIs, MySQL, Tomcat, AWS [Git Repo](#)

- Developed a full stack bookstore web application featuring categorized book modules, best sellers, and latest releases, using React and TypeScript for the frontend.
- Implemented backend operations with JDBC, DAO Pattern, and REST APIs, utilizing Axios for API calls and MySQL for the database. Deployed the app on Tomcat in AWS EC2 (public subnet) with the database in MySQL on EC2 (private subnet) within a VPC resulting in a scalable and efficient web application.

Online Slam Book | HTML, CSS, JavaScript, jQuery, Django, PostgreSQL [Git Repo](#)

- Developed a web app that enables users to personalize their slam books, featuring user authentication, friend addition, custom questions, themed backgrounds, and response tracking, using HTML, CSS, jQuery, and JavaScript for the frontend.
- Utilized Django and PostgreSQL for backend and data management, increasing user engagement and retention by providing a customizable and interactive user experience.

Event Ease | React, Axios, JavaMailSender, Spring Boot, AWS [Git Repo](#)

- Engaged in all SDLC phases for a web app enhancing host-invitee communication, offering centralized response tracking, personalized invitations, and email distribution for various event types. Developed user interfaces for login, registration, and forms using React, Axios, HTML, and CSS, and contributed to documentation, requirement use-cases, and wireframes with Balsamiq, resulting in positive user feedback and improved engagement.

Instagram Clone | React JS, Firebase, CSS [Git Repo](#)

- Engineered an Instagram web application replica using React and CSS for the frontend, Firebase Authentication for user authentication using email and password, Firebase Storage for storing images and Firebase Database for data management of posts and comments. Hosted the website on Google Cloud Platform using Firebase Hosting.

Hotel Booking Demand Visualization | Python, DASH App Framework, Google Cloud Platform [Git Repo](#)

- Created a web application using Python Libraries and DASH app framework to visualize the trends of “hotel booking demand” Kaggle dataset and hosted on Google Cloud Platform (GCP).

College Networking Site | HTML, CSS, jQuery, MySQL, Java Servlets

- Developed a comprehensive full-stack college networking web application with student and teacher interaction, library, and placement modules and locally hosted on Apache TOMCAT.