

Sai Aparanji Nemmani

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Education

Virginia Tech | Falls Church, VA
Master of Engineering in Computer Science & Applications

August 2023 – May 2025

Vidya Jyothi Institute of Technology | Hyderabad, India
Bachelor of Technology in Computer Science & Engineering

August 2016 – August 2020

Courses: Object-Oriented Programming, Databases, Data Structures & Algorithms, and Web Technologies

Skills

Languages: Java, Python, C, MySQL, PostgreSQL, JavaScript, HTML, CSS
Libraries/Frameworks: ReactJS, JUnit, Material UI, Bootstrap, jQuery, DASH, Selenium, TestNG, Git
Developer Tools: GitHub, Visual Studio Code, PyCharm, Eclipse, JIRA, Azure DevOps, Firebase, Google Cloud Platform, Balsimiq Wireframes
Certifications: Oracle Certified Associate, Java SE 8 Programmer (February 2020)

Experience

Virtusa | Hyderabad, India

Engineer - Technology

February 2022 – July 2023

Associate Engineer - Technology

October 2020 – January 2022

- 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.
- Optimized and scheduled Azure DevOps pipelines, aligning QA processes with release details to streamline monthly application releases, thereby enhancing accuracy, stability, and efficiency in CI/CD.
- Authored comprehensive documentation for Azure DevOps pipelines and end-to-end test automation processes, offering clear guidelines for team members and facilitating knowledge transfer.

Projects

Event Ease, Semester Project (Team Size: 5) | React, Axios, JavaMailSender, Spring Boot, AWS

Fall 2023

- Engaged in all phases of the software development life cycle of our web application that optimizes communication between hosts and invitees, offering centralized response tracking, personalized invitation creation, and email distribution with predefined or custom event types and themes.
- Developed engaging front-end user interfaces for Login, Registration, Custom and Predefined Host forms, and Invitee form using React, Axios, HTML, and CSS, resulting in positive user feedback and improved engagement during testing.
- Contributed to project documentation, crafted requirement use cases, and designed wireframes using Balsamiq, ensuring clarity and alignment with project goals. Link: <https://github.com/sushmanukala9/SEProject>

Online Slam Book | HTML, CSS, JavaScript, jQuery, Django, PostgreSQL

Fall 2023

- Developed a web application that enables users to personalize their slam books by adding friends, customizing questions, selecting personalized themes as background pictures for slam book form, sending the customized forms to friends, and efficiently tracking their responses.
- Implemented user authentication, and modules such as Themes, Friends, Questions, Requests, and Responses frontend pages using HTML, CSS, jQuery, and JavaScript, while implementing the backend with Django and managing application information storage and access through PostgreSQL. Link: <https://github.com/aparanji49/OnlineSlamBook>

Hotel Booking Demand Visualization | Python, DASH App Framework, Google Cloud Platform

Fall 2023

- 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). Link: <https://github.com/aparanji49/Hotel-Booking-Demand>

Instagram Clone | ReactJS, Firebase, CSS

November 2022

- Developed a clone of Instagram web application using ReactJS for the front-end, with a focus on creating, storing and displaying posts and comments.
- Integrated Firebase Auth for secure user authentication and leveraged Firebase Database for efficient storage and retrieval of posts and comments, augmenting overall functionality and data management.

College Networking Site, Semester Project (Team Size: 3) | HTML, CSS, jQuery, Bootstrap, MySQL, JSP

May 2020

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