# Sai Swaroop Naidu A

**Full Stack Web Developer**

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## Experience Summary

- Having extensive 6+ years of experience in **Java** and **Python** programming languages, with a focus on full stack development.

- Strong understanding of object-oriented programming **(OOP)** concepts and design patterns, applying them effectively in software development.

- Proficient in developing robust and scalable web applications using Java frameworks like **Spring MVC, Spring Boot, Hibernate, and JavaServerFaces (JSF).**

- Expertise in Python web development, utilizing frameworks such as **Django** to build efficient and high-performance applications.

- Hands-on experience with front-end technologies such as **HTML5, CSS3, JavaScript, TypeScript** and frameworks like **Angular**.

- Experienced in designing and implementing **RESTful APIs**, ensuring efficient communication between client and server applications.

- Deep understanding of database management systems, including **SQL** databases such as **MySQL, PostgreSQL**, and **MongoDB**.

- Hands-on experience in writing Junit test cases using **JUnit**. Integrated Glowroot tool for Application performance management.

- Keen understanding of Design Patterns like **Singleton, Factory** and **MVC**.

- Having experience in **AWS** cloud services like **EC2, S3, RDS, IAM**.

- Extensive experience in **SCM** concepts: Branching, Merging, check-in/out, Labeling, Packaging, Baselines, and Releases.

- Familiarity with DevOps practices, including continuous integration and deployment pipelines with good command over containerization technologies like **Docker** and orchestration tools like **Kubernetes**.

- Hands-on experience with tools such as **SVN, Git, HG, Log4j, Maven, Junit, Model Mapper, Swagger**.

- Solid knowledge of **SDLC** processes, including requirements gathering, design, implementation, testing, and deployment.

- Followed the **12Factor app** or **S.O.L.I.D** principles to build highly scalable and maintainable software solutions in development projects I have worked on.

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|---|---|
| **Programming Languages** | Java, Python |
| **Scripting Languages** | JavaScript, Typescript. |
| **Web Technologies** | HTML, CSS, Bootstrap, Angular, React |
| **Databases** | MySql, PostgreSQL, MongoDB. |
| **Operating System** | Windows, Ubuntu, Amazon Linux. |
| **Tools & Frameworks** | Spring, Hibernate, Junit, Maven, UnitTest, Django,Flask,Selenium. |
| **SDLC** | Agile, Waterfall. |
| **SCM** | Git, HG |
| **Software Tools** | Eclipse, NetBeans, Postman Client, Windows SCP, CLI, MobaXterm,Terminal, VisualStudio Code. |

**Work Experience**

**Graduate Assistant, TEXAS A&M - Corpus Christi**               **JAN 2022 – MAY 2023**

- Responsible for developing and maintaining Recsports **web applications** with python using **Django framework**.
- Maintaining student database of fusion application using **MongoDB** and **MySQL.**
- Maintained a tab on total resources, student workers who are part of the projects to maintain daily operations.
- Responsible for **JIRA** dashboard for tickets created by students to maintain bug free applications.

**COMCAST INDIA, Chennai**                                               **JAN 2019 – AUG 2021**

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|---|---|
| **Client** | : COMCAST USA. |
| **Role** | : Automation Developer 2 |
| **Environment** | : Linux, Java, Spring MVC, Spring Boot,Python, Micro Services, TestNG, React, Angular, MonogDB, MySQL, PostgreSQL, Maven, GIT, Docket JUnit, Swagger, Postman, Model Mapper, Jenkins, Jira, AWS. |
| **Team Size** | : 11 |

**Description:**

This project is used for developing multiple tools which are used to perform the stress testing on set top boxes. To reduce the manual effort of the team we are developing the tools using java and python with back end as MySQL. We also have a separate tool for maintaining the database of the set top boxes along with their health check.

**Responsibilities:**

- Developed multiple features in Automatics tool which performs the functionalities like stress testing in cleaning up the boxes with **Spring boot, Spring MVC and Hibernate**.
- Led team in the test constants features which reduce the rework for the tool users and reduces the bug fixing efforts for testing teams using **python UnitTest framework**.
- Implemented the Crash Analysis feature in Automatics tool to analyze the crashes in the set top boxes for automatic crash tickets using **RESTful APIs** with **Angular, React, Typescript and JavaScript**.
- Performed configuration, deployment and support of cloud services including **Amazon Web Services**.
- Experience on practical implementation of cloud-specific **AWS** technologies including **IAM, EC2, Simple Storage Services (S3) and RDS**.
- Involved in moving all the **log4j** dependencies due to recent security vulnerabilities of **log4j jar**
- Handled multiple micro services which supports the Automatics tool to create Server instances on **AWS**.
- Actively participated in **code reviews**, providing valuable feedback to peers.
- Involved in fixing the security vulnerability issues in **automation VM's**.
- Created, Maintained and Implemented **CI/CD pipeline** using **Jenkins** and extensively worked for End-to-End automation for all build and deployments using **Maven.**
- Involved in implementing **webpa** methods in multi-threading using executors.
- Familiarity with containerization technology **Docker**, enabling efficient deployment and management of applications in various environments.
- Working experience with **postman, swagger** tools for testing the micro services end points locally.
- Involved in documenting Automation Tools in **confluence** page.

**MSys Technologies, Chennai**                                             **April 2017 – Dec 2018**

**Client**           :  HP NIMBLE
**Role**             :  Software QA Developer
**Environment**      :  Linux, Unix, Java, Angular, Python, Django, Selenium, GIT, HG, HTML5
                        CSS3, JavaScript, Web-sockets, MySQL, SQL, PostgreSQL, JIRA, Confluence
                        Spring Boot, Postman.
**Team Size**        :  7

**Description:**

I have contributed significantly to the development and maintenance of the HP Nimble GUI, a HP Nimble storage systems GUI. I have demonstrated proficiency in designing, implementing, and maintaining robust and scalable solutions, ensuring high-quality code and optimal performance, including testing GUI using selenium with Unit test framework.

**Responsibilities**:

- Implemented **python** automated testing strategies utilizing **Selenium**, resulting in a 50% reduction in testing **GUI** components of Nimble storage.
- Participated in **product release cycles**, executing **regression tests** to validate the **stability** and **functionality** of new features.
- Involved in **WebSockets** communication to optimize data transfer and enable real-time communication between different components of the **storage** system.
- Proficient in working with **Linux** and **Unix** systems, having a deep understanding in command-line tools, and system administration tasks in creation of volumes.
- Utilized **Django** and **Spring Boot** frameworks for building web applications with seamless integration of front-end and back-end components.
- Implemented modern web technologies such as **HTML5, CSS3, and JavaScript** to create responsive and user-friendly interfaces in internal recruitment application.
- Collaborated with a team of developers to create a scalable and efficient database architecture using **MySQL, SQL, and PostgreSQL**..
- Demonstrated proficiency in version control systems like **GIT** and **HG** for application project.
- Built and maintained **CI/CD pipelines** using tools such as **Jenkins** to automate the build, test, and deployment processes.
- Involved in writing the documentation and **confluence** pages for GUI functionalities.

## Educational Qualification

- B.E (Computer Science and Engineering) from Sri MuthuKumaran Institute of Technology, Chennai in 2012-2016.

- MS (Computer Science Engineering) from Texas A&M University Corpus Christi, Texas in 2021- 2023.