

# Parth Manaktala

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## Professional Summary

A full stack developer with a creative mind and a fearless approach to adopting new programming languages and technologies. With 3+ years of industry experience and an AWS Cloud Practitioner Certification, I have a track record of learning quickly and delivering high quality code with the deadlines while learning something new in the process. I excel in collaborative environment while having the ability to deliver projects independently when necessary.

## Work History

### Software Developer Intern

May 2023 – August 2023

OFS Fitel – Norcross, Georgia

Developed multiple C# and .NET solutions for company's internal software, facilitating new processes, requirements, and detailed analysis.

- Established a .NET solution with database monitoring, real-time tracking of database status, system health, and connection metrics. Implemented prompt alert mechanisms for database failures and excessive connection usage, saving 50% debugging time.
- Implemented a threshold-based mechanism to detect high connection levels and automatically store user query details for analysis resulting in identifying problems twice as fast.
- Architected a SQL Query Viewer, to show the currently running SQL queries, with proper formatting and syntax highlighting.

### Software Developer: Systems Engineer

June 2019 – July 2022

Tata Consultancy Services – Bangalore, India

Developed multiple end-to-end applications and API using AWS Cloud, Java, and Spring Boot, while being involved in the software design, architecture, and planning phases of the project. Also authored technical documentations and architecture diagrams.

### Projects

- Implemented a robust *Integration Gateway* leveraging AWS services for a Fortune 100 client, enabling secure authentication, efficient routing, and session management, while facilitating Spring Boot based micro-services architecture. This incorporated 70% of the unit's applications.
- Designed and developed an *Aircraft Radar Configuration Application*, utilizing Spring Boot framework. Implemented critical features including advanced business logic, configuration file handling, and efficient saving, editing, and re-downloading of radar configurations, resulting in improved efficiency and streamlined operations making the whole process 3 times faster.
- Led the backend development efforts for a *Software Download and Upload Solution*, leveraging microservice architecture to ensure scalability and performance. Successfully integrated AWS and Azure cloud services, enabling transfer of software packages up to 100GB in size.
- Implemented multiple REST APIs and solutions using Agile and Waterfall methodologies, leveraging Amazon SQS, Spring MVC, and multiple SQL and NoSQL databases for efficient communication and integration.

### Responsibilities and Achievements

- Achieved over 90% test coverage through writing JUnit tests, reducing production and post-deployment bugs.
- Conducted industry-level training sessions and technical screenings.
- Mentored 5 freshers and guided them across multiple projects and received Star of the Month and Star of the Quarter Awards.

### Intern

January 2019 – March 2019

Tata Consultancy Services – Bangalore India

- Developed an interactive procurement portal using AWS serverless framework and AngularJS, integrating AWS Cognito.

## Education

Master of Science in Computer Science - Purdue University, Indiana, United States

GPA: 4.0

May 2024

Bachelor of Technology. Information Technology - SRM University, India

GPA: 8.4

May 2019

## Skills

Java, Spring Boot, Microservices, Maven, Hibernate, Spring Data JPA, C#, ASP.NET, .NET CORE, MySQL, PostgreSQL, Oracle DB, DynamoDB, MongoDB, HTML, CSS, SCSS, PHP, JS, Node.JS, Express, ReactJS, Python, Random Forest, Sentiment Analysis, Lemmatization, Stemming, AWS Cloud (CloudWatch, Lambda, API Gateway, SQS), GIT, CI/CD, REST, Agile, JIRA

## Projects

- Personality Prediction using Resume/CV*: Implemented an ML project that predicts personality based on Resume/CV data. Utilized random forest, sentiment analysis, stemming, and lemmatization techniques. Achieved accurate personality predictions by deriving the big 5 score from the resume.
- Restricted Input (Opensource on Maven)*: Contributed to the open-source community by publishing a maven dependency for validating user input in REST APIs. Developed custom Spring Boot annotations for comprehensive input validation and restriction capabilities. The dependency is available on Maven Central and hosted on GitHub (<https://github.com/pmanaktala/restricted-input>).
- Campus Store*: Created a MERN website for a campus store merchandise, employing MongoDB, Express.js, React.js, and Node.js. Conducted testing using Mocha and Chai frameworks. Successfully deployed the website, providing a secure platform for campus store operations. The website is hosted at <https://mastodon-store.onrender.com>.
- IoT and Cloud-Based Smart Library Prototype*: Developed a working prototype of an IoT and cloud-based Smart Library using Raspberry Pi, Arduino, and RFID Readers. Deployed the application on AWS using the serverless framework, ensuring scalability. Designed a user-friendly cross-platform mobile application using React Native and an AngularJS front-end.
- Personal CV*: <https://pmanaktala.com>