

# Sailavanya Narthu

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## SUMMARY

Software Engineer with around 2 years of experience in Java, Python, and machine learning. Proficient in full-stack development using the MERN stack, Spring Boot, and AWS. Experienced in building scalable applications, solving complex problems, and integrating machine learning models.

## EDUCATION

**Illinois Institute of Technology - Master's in Computer Science**

**Aug 2022 - May 2024**

*Software Engineering, Big Data Technologies, Advanced Database, Machine Learning*

Chicago, Illinois

**ANITS - Bachelor of Technology in Information Technology**

**Jun 2017 – May 2021**

*Data Structures & Algorithms, Artificial Intelligence, Operating Systems, Distributed Systems, Computer Networks*

Vizag, India

## TECHNICAL SKILLS and CERTIFICATIONS

- **Programming:** Java, Python, JavaScript, C, C++, C#, SQL, R
- **Web Technologies:** HTML, CSS, ReactJs, JQuery, SpringBoot, NodeJs, Bootstrap, Angular, Django, MERN Stack, .NET
- **Databases/BigData:** MYSQL, PLSQL, MongoDB, DocumentDB, Google Cloud, CI/CD pipelines, Hadoop, Hive, Kafka
- **Other Technologies:** Microservices, RESTful APIs, AWS, Azure, Git, Jira, Agile, SDLC, Docker, Numpy, Pandas, TensorFlow
- **Certifications:** Azure Fundamentals(AZ - 900), AWS Certification Course(Udemy)

## WORK EXPERIENCE

**One Community Global, Seattle, Washington**

**July 2024 – Present**

**Software Engineer , Remote**

- Developed and hosted **MERN stack** applications, integrating **MongoDB**, Express.js middleware, Node.js, and Java components for the Highest Good Network (HGN) **React** application, impacting over 10,000 users.
- Implemented new features, managed development and production environments, and adhered to coding standards and best practices.
- Managed the full software development lifecycle, version control with GitHub, and cloud deployments with **Microsoft Azure**.
- Collaborated with global teams of 100+ developers using Agile methodologies and Slack, contributing to automated testing, documentation, and open-source projects, ensuring high-quality software delivery and impactful improvements.

**Tata Consultancy Services, Hyderabad, India**

**Software Developer [Tech: Java, Spring Framework, JavaScript, RESTful APIs, Kafka and SQL]**

**July 2021 – July 2022**

- Developed and maintained scalable, cloud-ready software applications for Bank of America, optimizing transaction processing, customer account management, and risk assessment functionalities.
- Utilized **Java, Spring Boot, JavaScript**, and **SQL** to design and implement solutions, adhering to coding standards, best practices, and distributed system principles that are foundational for cloud platforms like **Microsoft Azure**.
- Collaborated with cross-functional teams to gather requirements and translate into technical specifications, driving project success.
- Conducted comprehensive code reviews, identifying areas for improvement and implementing changes to enhance performance and maintainability.
- Enhanced customer retention by 15% and increased upselling revenue by 10% through addressing client requests promptly.

**Hebeon Technologies Hyderabad, India**

**Python Developer Intern [Tech: Python, Numpy, Pandas, Matplotlib, Scikit-learn, Git]**

**Jul 2020 – Aug 2020**

- Constructed a machine learning model using **Python** and advanced regression algorithms (Linear Regression, Decision Trees, Random Forests) to predict employee salaries based on experience levels.
- Demonstrated the ability to bridge gaps between data science and business objectives through successful model implementation with an accuracy of 92%.

## PROJECTS

**Amazon Clone — <https://github.com/SaiLavanya1/Amazon-Clone>**

**Jan 2024**

- Developed a high-fidelity Amazon Clone using JavaScript, React, Firebase, HTML/CSS, TypeScript and NodeJs. Integrated key features such as user authentication, real-time database, and serverless functions.
- Demonstrated proficiency in **full-stack** development and rapid prototyping. Leveraged React Context API for efficient state management, slashing error rates and processing time by 50%.

**Traffic Flow Analysis in Different Weather Conditions — [https://github.com/SaiLavanya1/ML\\_PROJECT](https://github.com/SaiLavanya1/ML_PROJECT)**

**Nov 2022**

- Analyzed and forecasted traffic patterns with Python, GIS, Numpy, Pandas, and Matplotlib, leveraging **AWS services** such as Amazon Elastic Compute Cloud (EC2) for processing large volumes of traffic data.
- Processed sensor data and accounted for various weather conditions to simulate real-time data processing challenges, achieving an accuracy of 90%.

**Image Detection of roads using computer vision — <https://github.com/SaiLavanya1/Project-BTech>**

**May 2021**

- Implemented a robust image classifier with Python, TensorFlow, CNN, OpenCV, Tableau and Edge Detection to identify accidents in self-driving car scenarios.
- This project highlights expertise in computer vision techniques relevant to the field of **machine learning**, ultimately contributing to the development of safer autonomous vehicle systems.