

# VENKATA SAI REDDY PUNNAM

Worcester, MA | 774-535-0653 | [venkatasai1478@gmail.com](mailto:venkatasai1478@gmail.com) | [www.linkedin.com/in/venkatasaipunnam](http://www.linkedin.com/in/venkatasaipunnam)

## EDUCATION

<b>Master of Science in Computer Science</b>	May 2025
Clark University; Worcester, MA, USA	4.0/4.0
<b>Bachelor of Technology in Electronics and Communication Engineering</b>	June 2021
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology; Chennai, Tamil Nadu, INDIA	9.1/10

## RELEVANT SKILLS

**Technical Skills:** Java, Python, JavaScript, HTML5, CSS, Spring Boot, Django, React.js, Bootstrap, Material UI, Rest API's, MySQL, PostgreSQL, Oracle, MongoDB, AWS, PCF (Cloud Foundry), Git, GitHub, Jenkins, SonarQube, Docker, Junit, Mockito, Jest, Selenium, Automation, OpenAI, Agile, Test-Driven Development.

**Coursework:** Design and Analysis of Algorithms, Software Engineering, Usability Engineering, Machine Learning, Applied Data Analytics.

## EXPERIENCE

<b>Clark University;</b> Worcester, MA, USA	Dec 2023-May 2024
---	-------------------

Research Assistant at Department of Computer Science

- Spearheaded development of backend application for research projects, integrating Django framework, MySQL database, and Azure cloud services to streamline data management and analysis.
- Implemented AI-powered recommendation system by integrating OpenAI API, providing tailored suggestions to enhance user experience and increase engagement by 60%.
- Conducted rigorous testing and debugging, maintaining 100% application uptime, and facilitating seamless deployments to Azure environments using Git version control.
- Demonstrated strong problem-solving skills by optimizing algorithms to improve recommendation accuracy by 30%, based on user feedback and data-driven insights.

<b>Capgemini;</b> Hyderabad, Telangana, INDIA	June 2021-June 2023
---	---------------------

Senior Software Engineer

- Designed and implemented RESTful APIs enabling seamless integration of React frontends and Java backend.
- Introduced automated testing and Test-Driven Development processes with JUnit, Mockito, Jest, and Enzyme, increasing test coverage by 60% and reducing post-release defects by 20%.
- Developed and implemented robust and reusable methods, including APIs, for business logic in Java/Spring Boot.
- Demonstrated strong debugging skills and improved the system performance by 40%.
- Collaborated with cross-functional Agile teams using Jira to design, develop, and deliver high-quality software solutions adhering to requirements.
- **Pat On Back** Award for supporting the team and for providing major contribution to the project.

<b>Capgemini;</b> Hyderabad, Telangana, INDIA	Feb 2021-May 2021
---	-------------------

Internship

- Developed secure and scalable backend service using Java and Spring Boot framework, facilitating seamless communication with the front-end and PostgreSQL database.
- Demonstrated strong problem-solving skills and improved the system performance by 20% using efficient algorithms.

## RELATED PROJECTS

Project on Skill Workshop Application; Clark University, Worcester, MA, USA	2023
---	------

- Architected a scalable full-stack application, enabling seamless integration and efficient performance.
- Designed and implemented RESTful APIs, facilitating smooth communication between the front-end and backend components for an optimal user experience.
- Implemented robust testing strategies, including extensive unit, integration, and automation testing using selenium and cucumber, ensuring the delivery of a bug-free application that meets quality standards.