

SRIRAM REDDY PIDAPARTHI

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EDUCATION:

Master of Science in Computer Science

Indiana University, Bloomington, IN, USA

August 2022 – May 2024

GPA: 3.89/4

Coursework: Algorithms (Python), Artificial Intelligence, Cloud Computing, Big Data, Database Technologies, Software Engineering

Bachelor of Technology in Computer Science

Vellore Institute of Technology, Amaravati, India

August 2017 – May 2021

GPA: 8.69/10

Coursework: Object Oriented Programming (Java), Data Structures, Operating Systems, Computer Networks, Distributed Systems

WORK EXPERIENCE:

Associate Instructor - Indiana University, Bloomington, Indiana, USA

Applied Algorithms in Python (Data Structures) and Software Engineering

August 2023 – Present

- Conducted labs, and office hours to advise class of **120** students, framed assignments, and evaluated the examinations.
- Guided students in optimizing codes in the labs for efficient **time** and **space** complexities, enhancing their programming skills.

Full-Stack Developer - Indiana, USA

Hathi Trust Research Center

May 2023 – Present

- Defined a Python-based notebook capable of producing insightful summaries from extensive volumes of text data, thereby improving data comprehension by **75%** and facilitating informed decision-making.
- Architected and delivered a responsive HTML page, leveraging **JavaScript**, **React JS**, and the **D3** library to visualize voluminous data trends, enhancing user data interpretation by 90%

Software Engineer – Tata Consultancy Services, Hyderabad, India

Digital Cadre – CMI-Unit, VCS Team

July 2021 – July 2022

- Programmed scripts using **JavaScript**, **Redux**, and **ReactJS** to improve the existing codebase, resulting in **44%** faster page load time for the OTT Platform, SONY Pictures Network India under target timelines.
- Migrated codebase from local infrastructure to **AWS** integrating **CI/CD** practices, using services like Lambda, Amazon RDS, and API Gateways. This transition boosted scalability and performance while enhancing the overall system robustness by 57%.
- Integrated frontend platform with JWT authentication and optimized API interactions, significantly enhancing application security, performance, and user experience by **50%**.
- Handled potential issues in production and development with a turnaround time of 1-2 days. Reduced and resolved security risks, bugs, code smells, and memory leaks by performing frequent code analysis with **Selenium Testing**.

TCS Internal

- Worked on a live dashboard application in **JavaScript**, fetching real-time user statistics from the Roku **API server** providing crucial insights, and enabling data-driven decisions to enhance user satisfaction and retention by **33%**.
- Trained **50** new developers with web development technologies, resulting in a skilled team that accelerated project deadlines.

Full-Stack Developer – Bellwether, Hyderabad, India

June 2020 – June 2021

- Implemented middleware services for online food ordering using **Java 8** and **Spring Boot**, enhancing user experience.
- Integrated **Spring JWT** authentication for secure user access to the application and designed **Entity Relationship Diagrams** (ERD) for MYSQL DB, ensuring effective data management.
- Contributed to all phases of **SDLC** using Agile Methodology for efficient software development.
- Developed automated CI/CD pipelines/scripts to reduce deployment time.

SKILLS:

- Programming Languages:** Python, Java, JavaScript/TypeScript, C++, C, C#.
- Web Technologies:** HTML, CSS, Bootstrap, jQuery, Ajax, React JS, Postman, RESTful APIs, Redux JS, Node JS, GraphQL.
- Databases:** SQL Server, MySQL, MongoDB, PostgreSQL, SQLite.
- Cloud:** AWS (EC2, Lambda, SES, Aurora, S3, RDS, DynamoDB, IAM, VPC), Heroku, Netlify, Azure.
- Other:** CI/CD, Jira, Eclipse, Mocha, Chai, Postman, Firebase, Linux, GIT, Workbench, Docker, Kubernetes, Spring Boot, Power Shell.
- Certifications:** [Data Structures, UCSD](#) | [HTML, CSS, and JavaScript for Web Developers](#) | [AWS Certified Solutions Architect](#)
- Publication & Patent:** Executed the idea of utilizing sensors in the boats which could diminish the fatality rate in boat mishaps. Worked on a prototype and published a [research paper](#) and patent (Patent no. 202141031102) reviewed by IEEE.

PROJECTS:

- Health Sure** – [React, Bootstrap, Django, Heroku, Agile]: Built a full-stack patient and insurance management system platform that aids citizens in claiming insurance, checking the availability of doctors, and booking appointments. Various features like 2-factor authentication (OTP), Google SSO, Auth tokens, and User-specific dashboards for patients and doctors are included. Additional features like COVID testing, search filters, Chat Box, maps, calendar, etc. are employed and deployed in Heroku.
- Property Pros** – [React, NodeJS, AWS, MongoDB]: Developed end-to-end Real Estate Marketplace app that advantages both customers (to buy/rent properties) and sellers (to post advertisements about the properties). This application covers essential aspects like user authentication (using AWS IAM), AWS integration, Google Maps API, and advanced CRUD operations. A User-friendly dashboard is designed which contains property listings, interactive maps, and image uploads with AWS S3.
- Plate Mate** – [React, JAVA, Spring Boot, Netlify, PostgreSQL]: Spearheaded the development of a vibrant social cooking recipe platform, which has a user-friendly interface for discovering, creating, and sharing culinary creations, with a focus on accessibility for international students studying abroad. Users can like, comment, or save their favorite cuisines.