SAAI VIGNESH PREMANAND

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Education

Indiana University, Bloomington, IN   **Aug 2022 - May 2026**
Masters of Science in Computer Science
Relevant Coursework: Applied Algorithms, Computer Networks, Machine Learning

S.A. Engineering College, Chennai, Tamil Nadu   **Sep 2018 - June 2022**
Bachelors of Engineering in Computer Science and Engineering   GPA 9.2/10

Technical Skills

Languages:	HTML, CSS, JavaScript, TypeScript, Python
Frameworks/Libs:	Angular 9+, ExpressJS, NestJS, React, TensorFlow, Keras
Databases:	MongoDB, MySQL, PostgreSQL
Platforms/Tools:	VS Code, NodeJS, Postman, AWS Cloud, Jupyter
Project Management:	Jira, Trello, Git, BitBucket, Confluence

Work Experience

StellarLogix   **Jan 2024 – July 2024**
Software Engineer   Chennai, India
- Devised a scalable **AWS cloud architecture** for a IoT-based vehicle tracker which works over CoAP & MQTT transport.
- Planned & successfully executed the development of an ESL software solution using **MERN** stack and delivered it on time.
- Successfully trained and helped place an individual with no prior JavaScript developer experience in **Angular 18** front-end.

Calibraint Technologies Private Limited   **Oct 2021 – May 2023**
Associate Software Developer   Chennai, India
- Spearheaded the agile development of a client-tailored procurement, sourcing & analytics software using **MEAN stack.**
- Managed a team of 5 developers, resulting in successful and timely development and delivery of **multiple projects**.
- Planned sprints, user stories, completed them within stated deadlines and guided the team for the same as **scrum master.**
- Improved project's performance and stability, achieved **60% speed improvement** and **70%** reduction in **server crashes.**

Awards

Star Performer – Web Team, for producing quality & timely delivery, onboarded & trained new members; Calibraint   **Mar 2023**
The Eccentric Performer – Web Team, efficiently coordinated three different projects simultaneously; Calibraint   **Jan 2023**

Projects

Ramix – Electronic Shelf Labels Management Platform   **Feb 2024 - July 2024**
- Engineered a cloud-based multi-tenant, multi-user desktop and mobile-friendly progressive web application using React.
- Designed a JavaScript-based API proxy using NestJS that communicates with Minew Platform to manage ESL tags.
- Optimized **overall application performance by 50%** using data caching, pre-fetching and compression techniques.

ConSource – Procurement/Sourcing Platform   **July 2022 - May 2023**
- Managed the **entire development workflow** with a team size of five members in development, testing and delivery.
- Actively developed major core modules, third-party integrations, provided enhancements, bug fixes and timely support.
- Led the requirements gathering and grooming process with the client as a **scrum master** and a **core team member.**

Improveo – Professional Social Media for Consulting Firms   **Feb 2022 - May 2023**
- Implemented core modules of the application from scratch including **chat plug-in, SSR rendering and 3rd party integrations.**
- Built the application with an SEO-centric approach; **Improved application load speed by 30%** using compression techniques.
- Provided code enhancements, bug fixes and timely support for resolution of production incidents as a core team member.

ConPulse – Provider Performance Management   **Dec 2021 - Feb 2022**
- Formulated an **enhanced async account creation workflow** for the application; resolved major and intermediate-level bugs.
- Developed major back-end and front-end modules for performance data analysis workflow using **ExpressJS and Angular.**
- Improved **application performance by 35%** by reducing build size, enabling server-side compression and query optimization.