



GOKUL AMBALAVANAN

FULL STACK DEVELOPER

vannangokul@gmail.com
+91 89395 89721
LinkedIn:
linkedin.com/in/gokul-
ambalavanan-338a99155

Highly motivated and results-driven software engineer with 3.5+ years of experience in developing web, mobile, and desktop applications. Experienced Scrum Master with proven leadership skills, complementing technical expertise. Proficient in full-stack development using the MEAN stack and skilled in leveraging AWS cloud services for scalable, high-performance solutions. Seeking a challenging role in a forward-thinking organization that values innovation and fosters professional growth within a dynamic team environment.

Skills

- **Languages & Frameworks:** JavaScript, TypeScript, Node.js (Express.js), Angular (v8+), RxJS, React.js, C# (WPF), Electron.js
- **Databases:** PostgreSQL, AWS RDS, DynamoDB, SQL Server
- **Cloud & DevOps:** AWS (Lambda, EC2, S3), Docker, Kubernetes (EKS), Git/GitHub, Swagger/OpenAPI
- **Testing & QA:** Vitest, Jest, Postman, REST-API Testing
- **Agile & Collaboration:** Scrum Master, SAFe, Azure DevOps Boards, JIRA, Confluence
- **Scripting & Tools:** Bash/UNIX shell scripting, GitFlow, Visual Studio Code, Docker Desktop, Figma

Certifications

- Professional Scrum Master# I (PSM I)
- Udemy: TypeScript Design Patterns & SOLID Principles
- Udemy: Angular 3 The Complete Guide (2024)
- Udemy: Understanding Node.js
- Udemy: Master C# Programming from A to Z

Deputy Manager - Software Engineering Schneider Electric (2021 - Present)

Work History

TS&K Project | Full Stack Developer | AWS

.December 2024 - Current

- TS&K is an internal web application developed to support organizational talent and skills management. It enables leaders, managers, and employees to visualize and track competencies, manage team skills, and identify upskilling opportunities.
- Built interactive dashboards using AngularJS, TypeScript, RxJS, and HighchartsJS to enable intuitive data visualization.
- Designed and developed a scalable Node.js backend integrated with AWS RDS for secure and efficient data management.
- Built AWS Lambda APIs for ETL pipelines and Dash-boarding using HighCharts in Frontend.
- Worked closely with business stakeholders to translate requirements into functional and user-friendly web features.

Emerging Leaders Program | Program Aspirant

January 2024 - November 2024

- Selected as a finalist in Schneider Electric's Emerging Leaders Program—a strategic initiative to develop high-potential talent in leadership and project management.
- Trained and certified as a Scrum Master with hands-on experience in software project management and agile practices.
- Led project planning and execution using Azure DevOps Boards, facilitating Scrum ceremonies and promoting cross-functional collaboration.
- Conducted client interactions to gather business requirements and transform ideas into executable product features.

Education

B.Tech in Computer Science
Dr. M.G.R. Educational And Research
Institute, Chennai, India | May 2021
First Class

Data Unification Project | Full Stack Developer

. | January 2023 - December 2024

- As part of the Schneider Digital Factory initiative, this project aimed to build a distributed desktop application to monitor real-time plant operations, resulting in 2x cost savings and significant quality improvements. Technologies used included AngularJS, Node.js, ElectronJS, and AWS DynamoDB.
- Applied object-oriented principles to design, develop, and deploy a scalable monitoring system.
- Developed a responsive frontend using AngularJS (v17), TypeScript, and RxJS for seamless cross-device user interaction.
- Designed and implemented a Node.js backend integrated with AWS DynamoDB for scalable and efficient data storage.
- Automated unit testing with Vitest and mock data simulations.

Kemira | Full Stack Developer

. | September 2021 - December 2022

- Kemira is an Industrial Internet of Things (IIoT)-based solution designed to optimize plant operations. I contributed to the application layer, delivering full-stack functionalities using Node.js and AngularJS, with RxJS for effective state management.
- Developed advanced JavaScript business logic to analyze real-time plant data and support critical operational decisions.
- Engineered a robust Node.js backend with RESTful APIs, ensuring scalable and high-performance system communication.
- Designed UI mockups using Figma and implemented a responsive, user-centric frontend using AngularJS and RxJS.
- Ensured code quality and maintainability by developing comprehensive unit tests using the MochaJS framework.
- Actively participated in agile ceremonies following the SCRUM methodology, supporting continuous improvement and iterative delivery.

Accomplishments

- **Recipient of the Global Innovation Award for Sustainability**, recognized for demonstrating innovative mindset by proposing an AI model that monitors PEM Electrolyzer operations in real-time. This innovative solution optimizes parameters to maintain efficiency and extend the lifespan of electrolyzers, minimizing energy waste and reducing maintenance needs. By supporting sustainable hydrogen production, this award-winning model advances cleaner energy initiatives, contributing significantly to carbon neutrality and global sustainability goals.
- **Received high-level commendation from the Director of organization** for successfully implementing an innovative solution in our key EEC ideation campaign. **As the Tech Lead**, I spearheaded the development of a desktop application using WPF and C# with Microsoft.Interop.Word, enabling dynamic document merging on user request. This innovation significantly enhanced efficiency in generating hardware/software manuals, automating the creation of Functional Design Specifications (FDS). The result was an 80% reduction in man-hours and marked improvements in documentation quality and overall project efficiency.