

Silambarasan R

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Full-stack Software Engineer with 8+ years of experience building scalable web applications, APIs, and cloud-native solutions. Currently transitioning into Python and GenAI development with hands-on work in FastAPI, Django, LangChain, and Transformers.js. Skilled in modern frontend frameworks, backend architecture, CI/CD automation, and AWS serverless. Passionate about building AI-driven features, RAG systems, and production-ready microservices with clean, testable code.

Skills

- **Languages & Frameworks:** Python (Fast API, Django), JavaScript, TypeScript, Node.js, Symfony (PHP), Modern C++
- **AI / GenAI / ML:** LangChain, Transformers.js (Huggingface), Ollama, n8n, RAG Pipelines, Vector Databases (Chroma), Prompt Engineering
- **Frontend:** Angular, React.js (Redux), React Native, Next.js
- **Backend & DB:** REST APIs, Microservices, MySQL, MongoDB, AWS DynamoDB
- **Cloud & DevOps:** AWS (Lambda, API Gateway, CloudWatch), Docker, Git, Linux, CI/CD pipelines
- **Testing & Quality:** Jest, Cypress, PHPUnit, Xdebug, Karma
- **Concepts:** OOP, Serverless architecture, Data Structures & Algorithms, Agile (Scrum)
- **Languages:** Tamil – Native proficiency, English – Professional working proficiency
- **Soft Skills:** Analytical, Adaptable, Solution-Oriented, Creative, Team-Focused, Self-Driven

Experience

Specialist - Software Engineering – Product Engineer

LTI Mindtree - Bangalore, Karnataka, India

Jul 2023 – Present

- Engineered internal DevOps tooling and automation scripts using **Python**, improving deployment reliability and CI/CD performance.
- Built and optimized **REST APIs** (Symfony, Node.js, Python-based Lambdas) with strong focus on scalability, observability, and testability.
- Modernized legacy architecture by migrating **Angular v7.3 → v20**, improving performance, bundle size, and developer experience.
- Strengthened product quality with **100% test coverage** across unit, integration, and E2E layers using Jest, Cypress, and PHPUnit.
- Implemented API monitoring, debugging, and profiling workflows using **Xdebug, Docker, AWS Lambda**, and automated test pipelines.
- Contributed to internal R&D initiatives using **FastAPI, Django, LangChain, Transformers.js**, and **RAG prototypes** for **GenAI**-driven solutions.

Technical Lead

Manureva Digital Solutions Pvt. Ltd., - Pondicherry, India

Apr 2020 – Jul 2023

- Developed scalable **Node.js** and **Symfony** APIs integrated with **MySQL** and occasional **DynamoDB** for high-throughput operations.
- Built and optimized **React.js** and **Angular** applications for international clients, improving UX and overall performance.
- Engineered a full Customer Order Management System that significantly enhanced client revenue and workflow efficiency.
- Led a 4-member development team, driving **clean code** standards, **code reviews**, and consistent **on-time delivery**.

Software Developer

Binary Tech Resonance Pvt. Ltd., - Chennai, Tamil nadu, India

Jun 2017 – Apr 2020

- Developed web applications and CMS/e-commerce platforms using **Core PHP, CodeIgniter, Laravel**, and **REST API integrations**, delivering solutions across retail, manufacturing, and agro domains.
- Built ERP/CRM modules, GST billing systems, and hybrid mobile apps using **Angular + Ionic**, including a location-tracking field-marketing app.
- Integrated payment gateways (PayPal, Razorpay, CCAvenue) and maintained Ecommerce applications for local vendors

Education

- **M.Sc - Master of Computer Science**

Annamalai University (CDOE) – Chidambaram, Tamil nadu, India.
Sept 2023 – May 2025

- **BCA – Bachelor of Computer Applications**

St. Joseph's arts & science college – Cuddalore, Tamil nadu, India.
June 2014 – Apr 2017

Certifications

- **JavaScript 100 Certification**

Codingame – Dec 2021
https://www.codingame.com/certification/t2OsCHuypjdDnBaksg_lMw

- **JavaScript Algorithms and Data Structures**

FreeCodeCamp – Oct 2021
<https://freecodecamp.org/certification/silambarasan-rd/javascript-algorithms-and-data-structures>