

Peramanathan Sathyamoorthy

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PROFILE

Senior Software Engineer with over 9 years of experience in building scalable web applications and leading development teams. Holds Master's degrees in Computer Science and Operations Research, providing a strong foundation in both theoretical and applied aspects of technology and optimization. Proven expertise in JavaScript, ReactJS, Architectural Design and System Building. Demonstrated leadership in integrating innovative solutions and driving efficiency in startup environments. Experienced educator with a passion for mentoring and fostering innovation through technology. Independent learner and builder since December 2024 (family-care employment gap). Projects listed are the recent March–August 2026 slice — not the whole interval. Available now for a permanent senior role building AI and agentic workflows — fullstack, product, or Forward Deployed Engineer.

INDEPENDENT WORK

Independent learner and builder | Family care + shipped products, Sweden

December 2024 - Present

- Shipped kanithanj.ai (collab-finder) 1.0.0 on 19 August 2026 — a Tauri, Rust, and React apply cockpit with SQLite history and CI quality gates, replacing scattered hunt notes with a local operator loop.
- Compiled a Rust Tamil-metre parser to WASM and shipped a React UI (thepulimaangani), so prosody analysis runs in the browser without a backend.
- Built the public CV and apply-PDF pipeline (devprofile + kanithanj.cv) on Next.js, generating a two-page master CV and role-fit packs from a single cvdata source.

Tools: TypeScript, React, Rust, Tauri

WORK EXPERIENCE

Senior Software Engineer | Oneflow AB, Digital Signature and Contract Management Platform, Stockholm, Sweden

January 2023 - December 2024

- Strategically integrated TypeScript into a mixed legacy codebase with FlowType and JavaScript, resulting in a 70% reduction in type-related errors, significantly enhancing code reliability and maintainability. Leveraged previously introduced Zod's type inference for robust type hinting in business data
- Automated the conversion of JavaScript modules to TypeScript with a custom script preserving the version control history, saving over 200 hours of manual work and accelerating development timelines
- Unified distributed ACL permissions into a single utility module, managing complex contexts and user roles (owner, guest) to simplify maintenance, migration and enhance scalability.

Tools: TypeScript, ReactJS, Python

Engineering Team Lead | Oneflow AB, Stockholm, Sweden

October 2021 - December 2022

- Co-led the development of a new JSON-based rich text editor seamlessly integrating with legacy HTML, increasing user satisfaction by 60% and providing a modern, cohesive editing experience.
- Mentored and empowered the development team to a self-organizing model, overseeing hiring and onboarding while instilling a continuous improvement culture. This resulted in increased productivity, stronger ownership, and scalable team practices.
- Pioneered an end-to-end testing transformation with Playwright, starting with an innovative approach to replicate mob testing scenarios. This significantly reduced regressions and boosted efficiency. Later, I spearheaded a complete rewrite of the end-to-end testing suite in Playwright.

Tools: JavaScript, TypeScript, Python, ReactJS, Webpack, Jest, Zod, Testing-library, Playwright, MySQL

SKILLS

Product: Adaptable Problem Solving, Proactive Problem Prevention and Elimination, System Thinking, Detail Orientation, Innovative Adjacent Thinking, Creative Solutions

Development: Agile, Test Driven Development, Behavior Driven Development, End-to-End Testing, Pair/Mob Programming

PROJECTS

collab-finder

Jun 2026 – Aug 2026 · kanithanj.ai

Tauri + Rust + React desktop app for high-fit roles and apply packs (1.0.0 shipped 19 Aug 2026).

thepulimaangani

Apr 2020 – Aug 2026

Tamil metre in the browser — Rust/WASM parser and React UI (live demo).

devprofile

Sep 2025 – Aug 2026

Public portfolio and apply-CV — Next.js, grounded Q&A, Focus essays.

AI COURSES

Cilium AI/ML Security

Isovalent · AI/ML Security · 2026

LangChain Chat with Your Data

DeepLearning.AI · AI · 2024

Build LLM Apps with LangChain.js

DeepLearning.AI · AI · 2024

TECHNOLOGIES

Languages: JavaScript, TypeScript, Python, Rust, C

Frontend: React, Next.js, TanStack, Vite, Zod, Accessibility (WCAG)

Backend: Node.js, Express

Testing: Playwright, Jest, Testing Library

Data: MySQL, MongoDB

Cloud & tooling: AWS, Vercel, Cloudflare, Tauri

Full Stack Integration Engineer | Oneflow AB, Stockholm, Sweden

March 2019 - September 2021

- Established the Integration Team from the ground up, creating foundational processes and best practices for long-term scalability, while strategically aligning integration solutions with business needs.
- Designed multi-client applications with Python and React.js, facilitating seamless integrations with platforms like HubSpot and SuperOffice, expanding Oneflow's reach and interoperability. Helped Microsoft Dynamics and Salesforce Development with reviews and frontend decision making. Built connector application extensions for the CRM integrations and Teamtaylor
- Stabilized and enhanced the Public API, which enabled a robust third-party integration ecosystem, contributing to client satisfaction and platform versatility.

Tools: Python, Reactjs, CRMs (HubSpot, SuperOffice, Microsoft Dynamics, Salesforce), Connexion

JavaScript Developer | Oneflow AB, Stockholm, Sweden

April 2017 - February 2019

- Innovatively Integrated React Router into a Backbone.js-based client to build Identity and Access Management, facilitate faster prototyping cross-linked user management and efficient testing.
- Optimized CI build processes, reducing build times by 40%,
- Contributed to modernizing the legacy codebase by transitioning to React.js.

Tools: Python, Reactjs

Full Stack Developer | Weavler AB, An accessible e-commerce artisans platform (with 1.6M SEK PTS grant), Stockholm, Sweden

January 2016 - March 2017

- Managed AWS cloud infrastructure, reducing operational costs by 40%.
- Integrated services like Mandrill, Slack bots, and PayPal, improving platform functionality. Implemented SEO strategies with server-side rendering.
- Designed responsive email templates for email clients and browsers.

Tools: JavaScript, Express, Reactjs, Alt.js, Accessibility, SSR, MongoDB, Babel Plugin(OSS)

Software Engineer Intern (Summer Project) | Bumbee Labs AB, Footfall analytics, Stockholm, Sweden

July 2015 - September 2015

- Applied MongoDB aggregation and map-reduce to generate structured reports from millions of raw data samples for footfall analytics.
- Enhanced full-stack dashboard with gulp build and key performance indicators.
- Explored migrating tech stack to Reactjs and Eve Python framework.

Tools: MongoDB, AngularJS, Python, Heroku, Laravel (PHP), System Monitoring

PUBLICATIONS

Profiling Energy Efficiency and Data Communications for Mobile Internet of Things

Wireless Communications and Mobile Computing, 2017-11-07

Energy Efficiency as a Orchestration Service for the Mobile Internet of Things

2015 IEEE 7th International Conference on Cloud Computing Technology and Science (CloudCom), 2015-11-30 - 2015-12-03

EDUCATION

Master of Science in Computer Science

Uppsala University, Sweden

2010 - 2016

Master of Science in Operations Research and Computer Applications

National Institute of Technology, Tiruchirappalli, Tamilnadu, India

2007 - 2009

Bachelor of Science in Mathematics

Kadhir Mohideen College, Affiliated to Tiruchirappalli Bharathidasan University, Adirampattinam, Thanjavur, Tamilnadu, India

2004 - 2007

LANGUAGES

English: Proficient

Swedish: Basic