

# Peramanthan Sathyamoorthy

## Curriculum Vitae

### Summary

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**Senior Software Engineer** and naturalized **Swedish** citizen of **Indian** origin 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**, **TypeScript**, **React.js**. Demonstrated leadership in integrating innovative solutions and driving efficiency in startup environments. Experienced educator with a passion for mentoring and fostering innovation through technology.

### Recent Relevant Recorded Experiences

- Jan 2023 - Dec 2024 **Senior Software Engineer (24 months)**, *Oneflow AB, Digital Signature and Contract Management Platform*, Stockholm 🇸🇪
- **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 version control history, saving over 200+ hours of manual work, 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.
- Oct 2021 - Dec 2022 **Engineering Team Lead (15 months)**, *Oneflow AB*, Stockholm 🇸🇪
- **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.
  - **Engineered a lightweight Zod-based data validation library** which streamlined data validation and minimized runtime errors.
- Mar 2019 - Sep 2021 **Full Stack Integration Engineer (31 months)**, *Oneflow AB*, Stockholm 🇸🇪
- **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.
  - **Stabilized and enhanced the Public API**, which enabled a robust third-party integration ecosystem, contributing to client satisfaction and platform versatility.
- Apr 2017 - Feb 2019 **JavaScript Developer(23 months)**, *Oneflow AB*, Stockholm 🇸🇪
- **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.

Stockholm, Sweden

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Jan 2016 - Mar 2017 **Full Stack Developer**, *Weavler AB, An accessible e-commerce platform for artisans with 1.6M SEK PTS grant 2015*, Stockholm 🇸🇪

- **Managed AWS cloud infrastructure**, reducing operational costs by 40%.
- **Administered MongoDB databases**, ensuring high availability and performance.
- **Integrated services** like Mandrill, Slack bots and PayPal, enhancing platform functionality.
- **Created an intelligent notification and chat bot** for onboarding and FAQs.
- **Implemented SEO strategies** with server-side rendering.
- **Developed a open source babel plugin** to quickly implement translations to the entire project.
- **Enhanced accessibility** with text customization and color filters, aligning with WCAG standards.
- **Experimented advanced features** like speech synthesis and recognition, improving accessibility.
- **Designed responsive** email templates for email clients and browsers.

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## Top Software Engineering Skills at **Work**

Development [Git](#), [JavaScript](#), [TypeScript](#), [Reactjs](#), [Redux](#), [Alt.js](#), [MongoDB](#), [AWS](#), [Bamboo](#)(CI/CD)  
Practices [Agile](#), [TDD](#), [BDD](#), [E2E](#), Pair/Mob Programming and Testing  
Soft Skills Leadership, Team Building, Mentorship, Cross-Team Collaboration, Strategic Epic Planning, Problem-Solving, Communication, Creative Thinking

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## Recent Certifications and Courses (September 2024 - Present)

Terraform [HashiCorp Terraform Associate Exam Cram \[O'Reilly Live Event\] 2 days Live Course](#)  
Langchainjs [LangChain Chat with Your Data](#)  
Langchain.js [Build LLM Apps with LangChain.js](#)

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## Occasionally Used and Familiar Technologies

AGI & Infra New [LangChainjs](#), [LLMs](#), [Terraform](#), [AWS SageMaker](#) and [AWS Bedrock](#)  
Workflow [Graphite](#)(Stacking PRs)  
Fullstack [Remix](#), [Nextjs](#), [Astro](#), [Solid-start](#)  
Languages [C](#), [C++](#), [Java](#), [R](#), [Erlang](#), [Rust](#), [Elixir](#)  
Data Science & ML [R](#), [Python](#), [NumPy](#), [Panda](#), [Scikit-learn](#)  
Front-End tools [Esbuild](#), [Vitejs](#)  
API Frameworks [Django](#), [Flask](#), [Eve](#)  
Databases [MySQL](#), [Postgres](#), [MongoDB](#)  
Deployment [AWS](#)([EC2](#), [S3](#), [IAM](#), [ELB](#)), [Heroku](#), [Netlify](#), [Vercel](#), [Fly.io](#)  
Miscellaneous Data Visualization, KPI Implementation, SEO Optimization, Accessibility Compliance, Speech Recognition, Chat Bot Development

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