

# 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 - Present **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.

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- Jan 2016 - Mar 2017 (1 year 3 months) **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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## Internships

- Jul 2015 - Sep 2015 (3 months) **Software Engineer Intern (Summer Project)**, *Bumbee Labs*, Stockholm 🇸🇪
- **Applied MongoDB aggregation framework** and map-reduce to generate pre-aggregated and structured reports from millions of samples with raw data.
  - **Enhanced full-stack dashboard application** with gulp build and assisted implementing Key Performance Indicators.
  - **Explored the feasibility of migrating the tech stack** to Reactjs and the Eve Python framework.

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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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## Open Source Contributions

- Jan 2017 - Feb 2017 **Babel Plugin: FormatJS compatible react-intl translation hint modules generator**

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## Publications

- 2017 **Profiling Energy Efficiency and Data Communications for Mobile Internet of Things**
- 2015 **Energy Efficiency as a Orchestration Service for the Mobile Internet of Things**

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## 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 **Esbuilt**, **Vitejs**
- API Frameworks **Django**, **Flask**, **Eve**
- Databases **MySQL**, **Postgres**, **MongoDB**




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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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## Education

- 2010 - 2016 **Master of Science in Computer Science**, [Uppsala University](#), , Grade: 3.92/5  
Thesis: **Enabling Energy-Efficient Data Communication with Participatory Sensing and Mobile Cloud**, *Cloud-assisted Crowd-sourced Data-driven Optimization*
- 2007 - 2009 **Master of Science in Operations Research and Computer Applications**, [National Institute of Technology](#), Tiruchirappalli, Tamilnadu, , Grade: 8.08/10
- 2004 - 2007 **Bachelor of Science in Mathematics**, [Kadhir Mohideen College](#), Affiliated to Tiruchirappalli Bharathidasan University, Adirampattinam, Thanjavur, Tamilnadu , Grade: 74.09 %

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