Peramanthan Sathyamoorthy

Curriculum Vitae

Summary

☒ : in ⚬ X

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

📱 *+46 737 641 917*   ●   ✉ *sathyam.peram@gmail.com*

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.

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.

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

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

Open Source Contributions

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

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

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

Stockholm, Sweden
📱 *+46 737 641 917* ● ✉ *sathyam.peram@gmail.com*

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

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 %