Sahithyan Kandathasan

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Professional Summary

Software Engineer with 3+ years of experience building and shipping web and mobile applications, and a hobbyist coder since a young age, currently pursuing a BSc in Computer Science & Engineering (Cybersecurity Stream) at the University of Moratuwa. Skilled across the full stack, from React and Astro frontends to Bun, Elysia, and Postgres backends, with hands-on DevOps experience deploying to AWS and Docker. Competes in competitive programming and CTF competitions, and writes about software engineering and cryptography on a personal blog.

Education

University of Moratuwa Mar 2024 – Present
BSc Engineering (Hons) in Computer Science & Engineering, Cybersecurity Stream CGPA: 3.82/4.0

J/Hartley College Jan 2013 – Dec 2022
Secondary Education

Experience

Associate Software Engineer Dec 2024 – Mar 2025
Asta

- Sole frontend developer for Axento, their project management product, built with Next.js
- Built the product through its pre-release phase, from early development to launch

Intern Software Engineer June 2024 – Dec 2024
Asta

- Built a client project on React, Vite, and TypeScript, with Tailwind CSS and shadcn/ui for the UI
- Used Bun as the package manager and runtime, and Biome for linting and formatting

Freelance Developer Jan 2020 – July 2022
Freelancer.com & Upwork

- Built Chrome extensions for clients, including data scraping tools and an NBA website enhancement, along with other niche extensions
- Upgraded and maintained existing extensions for repeat clients

Projects

kalvi.lk live website
Bun, Hono, Postgres

- Built a huge repository of exam papers, presented on a minimal website
- Reached 6 million downloads by June 2026 with over 100K active users
- Repository is private. Individual project

Vannamayil live website
Tanstack Start, Elysia, Bun, AWS

- Engineered an e-commerce platform for an existing store, set up as a monorepo with a Dockerized development environment and Biome for linting and formatting
- Deployed and actively used in production
- Repository is private, client work. Group project

XCalc web · repo
React, WebAssembly (AssemblyScript)

- Developed a niche calculator app for the extra functionality a Mathematics student needs, supporting factorial, factorization, GCD/LCM, the n-th Fibonacci number, prime checking, and ratio simplification
- Runs on web and Android. Individual project

Pred repo
Go, TypeScript, Kafka, Postgres

- Built a multi-tenant predictive maintenance platform for managing equipment and maintenance alerts (CS3023)
- Architected as microservices behind a Kong gateway, with Keycloak auth, Kafka event streaming, and MQTT device ingestion
- Semester project (CS3023). Repository is public. Coordinated development across a 20-person team

Interactive Algorithm Simulators Individual project

- Turing Machine Simulator - visualizes how a Turing machine reads, writes, and moves across its tape
- Diffie-Hellman - shows two parties agreeing on a shared secret over a public channel
- RSA - walks through key generation, encryption, and decryption with public-key cryptography
- DES - walks through the Feistel rounds and key schedule that shaped block cipher design
- Regex to Automata - compiles a regular expression into an NFA and DFA
- Bitwise Operations Playground - an interactive playground for AND, OR, XOR, and bit shifts

Open Source Contributions

Vercel Satori vercel/satori

- #310: Resolved image size for data URIs, fixing broken rendering when the source was a data URI
- #376: Fixed font resolution silently falling back to default due to a missing locale suffix
- #359: Added support for non-breaking space characters, which were being collapsed like regular spaces

Rollup Cache robertknight/rollup-cache

- #9: Documented how to enable caching for other Rollup plugins in the README
- #10: Added a CommonJS build, configuring Rollup to also emit a CommonJS bundle alongside the existing ESM output

Competitions and Awards

Champions, UoJCoders v5.0 July 2026

- A 12-hour competitive programming contest organized by University of Jaffna

Top 15 Finalist, CryptX 2.0 CTF Apr 2026

- Hosted by ICT Society, Faculty of Technology, University of Sri Jayewardenepura

Top 10, Battle of The Multiverse CTF Mar 2026

- 24-hour international (Japan & Sri Lanka) event, hosted by LNBTI City Campus, Maharagama

Extra-curricular Activities

Tech Team Lead 2025

Mora Exams Committee

- Migrated the old PHP-based website to Astro+React based for increased performance and less hosting fees
- Led a small team developing the technical aspects of Mora Exams, the biggest island-wide pilot exam for G.C.E. (A/L) students

Technical Skills

Frontend: HTML, CSS, JavaScript, TypeScript, React, Preact, Astro, Tailwind, Vite, WebAssembly (AssemblyScript)
Backend: Node.js, Bun, Elysia, Express, Hono, Postgres, SQLite, Golang, SQL
DevOps: AWS, DigitalOcean, Vercel, Docker, Nginx, GitHub Actions, CI/CD, Linux, Bash, Git
Others: Next.js, TanStack Start, Python, C, C++, Java, SEO, Agile, Scrum

References

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