

# SNEHAN CHAKRAVARTHI SANTHANAM

FULL STACK DEVELOPER • 3D DEVELOPER • INDUSTRIAL DESIGNER

June 12<sup>th</sup>, 1995 (28 years)

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Full Stack Developer and 3D Specialist with a background in IT and Industrial Design. I bring a unique blend of design thinking and technical expertise to software and product development. Aided by my entrepreneurial experience in launching a startup, I have honed my skills in creation and execution for any challenges.

**Portfolio:** [www.snehan.site](http://www.snehan.site)

**LinkedIn:** [www.linkedin.com/in/snehanchakravarthi/](https://www.linkedin.com/in/snehanchakravarthi/)

## PROFESSIONAL EXPERIENCE

**Indie Hacker, Malmö**

Aug 2023 – Present

*Full Stack Developer*

Leading the development of innovative full-stack applications. Noteworthy projects include:

### Acetrait: AI-Powered Recruitment Platform

- **Project Overview:** AI platform designed for the recruitment process for companies and job seekers. By automating the creation of engaging job posts, developing ideal candidate personas, conducting comprehensive interviews, and evaluating candidates.
- Took in charge of the development of the application and converted the code from Sveltekit to Nextjs 14, resulting in the various benefits.
- Brought down the costs for per AI interview and grading by more than 80% by shifting the core jobs to edge runtime using Nextjs 14. Removed the need for long execution processes in the servers, when dealing with large LLM responses from OpenAI API, cutting down on the costs from Vercel.
- Optimized the total no of fetch calls and cache to improve performance of the application by more than 30% while reducing the code size.
- Reduced the size of system prompt per request by finetuning GPT 3.5 resulting in lesser tokens, close to none hallucinations and faster responses.
- Implemented cookie based auth and RLS, all in the same Postgres database for integrity and scalability.
- Fixed multiple weak spots on the database client by using RPCs.

### Personal AI Utility Tracker on WhatsApp

- **Project Overview:** This project involved creating a highly personalized AI utility tracker application integrated with WhatsApp. The application offers users real-time tracking and management of daily tasks and utilities through WhatsApp voice messages.
- Building the application for scalability from the start, using Docker for containerization.
- Used a mix of Express and Flask, to share the server logic and optimizing middleware features.

**Motsats AB, Malmö**

Feb 2023 – Sep 2023

*Front End Developer*

- **Immersive 3D and AR Experience:** Developed an interactive 3D site, using Three.js and React Three Fiber, to provide customers with a browser 3D rendered dynamic and immersive view of our products.
- Integrated an **Augmented Reality (AR)** feature, enhancing real-time product visualization and review capabilities. This approach allowed customers to explore products in their own space, significantly enriching the user experience and product likeness.
- Implemented a markdown blog section focused on SEO optimization to increase marketing reach and search engine visibility.
- **Impact on Business Metrics:** My contributions led to a 60% increase in user interaction, significantly boosting global visibility, attracting investments, and generating pre-orders.

**Motsats AB, Malmö**

Mar 2021 – Sep 2023

*CEO & Cofounder*

Lead the startup through product design, fundraising, manufacturing, and creation of webstore and media assets.

- **Design Leadership:** Directed the design of Motsat's flagship product, the Zero da Vinci and developed an engaging website to showcase its features and attract stakeholders.
- **Capital Acquisition:** Raised 1.05 M SEK, enabling the transition from concept to commercial product, covering design refinement, prototyping, and initial production phases.
- Successfully secured copyrights and patents, safeguarding our unique designs and technological innovations.
- Established manufacturing operations in Sweden, ensuring high-quality production and efficiency by partnering with local manufacturers and optimizing the supply chain.

## SKILLS

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**Technical:** Mastery in latest full-stack frameworks and libraries. Proficient in various database systems and API integration. Skilled in version control, DevOps practices, and comprehensive testing methodologies. Hands on experience with various LLM models and system designs.

- **Frontend** Javascript, Typescript, HTML, CSS, React, Threejs, Redux, TailwindCSS, Svelte, Shadcn
- **Frameworks** Nextjs, React Three Fiber, Remix, Astro, SvelteKit
- **Backend** Nodejs, Express, Python, Flask, FastAPI, Django
- **Database** Postgres, Mysql, MongoDB, Supabase, Firebase, Redis, MDX, CMS
- **Devops** Docker, Vercel, Kubernetes, AWS, Azure, Github Actions
- **Tools** Prisma, ReactQuery, tRPC, Postman, Jest, GraphQL, Rest, Git, Jira, Trello
- **Design** Figma, Adobe PS, Adobe Illustrator, Blender, Solidworks

**Soft Skills:** Clear communication, first principles problem-solving, collaborative teamwork, and swift adaptability to new challenges and technologies.

**Additional:** My additional skills encompass a keen understanding of UI/UX design, efficiency in agile project management, a strong focus on performance and security, and hands-on experience with cloud-based infrastructure for scalable solutions.

## EDUCATION

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### Masters in Industrial Design – Human Centric Design

Lund University, Sweden

Aug 2018 – Aug 2020

Master Thesis: Developed Electric Surfboard Concept – Jetski crossover – Radinn AB

### Bachelors in Information Technology

SRM University, India

Aug 2013 – Aug 2017

Thesis: GPS tracking platform for communication Android app

## PATENT FILED

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- **Zero da Vinci:** Transforming Multifunctional Furniture Design + European Copyrights

## ACHIEVEMENTS

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- **NASA Collaboration:** Selected in a project at Johnson Space Center in Houston, USA, where I developed a human habitat concept for long-duration space travel in microgravity conditions.
- **IKEA x Milano Design Week Showcase:** My multifunctional furniture concept was chosen for exhibition under IKEA banner, amazed 1M SEK investment and lead to the founding of my startup.

## INTERESTS

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- AGI, ASI and Singularity – staying upto date with the bleeding edge tech.
- E/acc (effective accelerationism), space exploration, decentralisation.
- Future of gaming/simulationlow – latency high realism graphics and world development, independent of client side hardware.
- Science fiction in all media formats, theoretical physics and nature of the universe.
- Football, calisthenics, weight training, painting.

## LANGAUGE

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- English
- Tamil
- Telugu
- Swedish - Basic