

# Kavin Desi Valli

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## TECHNICAL SKILLS

**Languages:** Javascript, Typescript, Python, SQL (Postgres, MySQL), MongoDB, HTML/CSS, Dart, C++

**Frameworks:** React, Next.js, Node.js, Express, Django, Laravel, Tailwind CSS, Flutter

**Other Tools:** OpenAI, Langchain, Stripe, Supabase, Git, Docker, OpenCV

## EXPERIENCE

### Embedded Full Stack Developer

*Arcturus Networks Inc.*

*Jan 2024 – April 2024*

- Responsible for feature development, bug fixes, UI/UX enhancements, and performance optimizations while working on the Brinq Edge AI software on the i.MX 8M Plus in a **ReactJS** Frontend, **NodeJS** and **C++** Backend.
- Worked on integrating **object detection**, **occupancy analytics**, and video clip-saving using **ffmpeg**.
- Utilized **OpenCV** to develop a heatmap displaying people intensity on a real-time video stream to be showcased at the **Embedded World Symposium 2024** using the i.MX 93 SoM.
- Managed the **deployment**, creating **bash scripts** and **managed Jenkins pipelines** to streamline the process.

### Full Stack Developer

*Riskshield AI*

*May 2023 – Sept. 2023*

- Led the development of an AI-Powered Financial Risk Management platform to deliver financial risk assessment using **NextJS** and **Chakra UI**.
- Used **Langchain** and **OpenAI** to perform AI based categorisation of ICFR cycles.

### Lead Web Developer

*Starmorph AI ([starmorph.com](https://starmorph.com))*

*May 2023 – Sept. 2023*

- Implemented user authentication using **Supabase Auth** across applications and rate-limiting using **Redis**.
- Developed an enhanced version of the generative chatbot using **NextJS**, **Langchain** and **OpenAI**.

### Full Stack Developer

*CleanDesk AI*

*Jan. 2023 – May. 2023*

- Researched the use of **Langchain** and **OpenAI Functions** to enhance the response time of the AI assistant.
- Established **continuous deployment pipelines** for React applications and Django backends, leveraging **GitHub Actions** to automate and streamline the deployment process.

### President and Head Web Developer

*Exun Clan: Technology club at DPS RK Puram*

*Oct. 2020 – Apr. 2023*

- Responsible for leading and managing one of the **largest and oldest student-run technology club in India**.
- Conducted the annual international tech symposium with more than **22600 participants** and participated and won various team based hackathons.

### Teaching/Youtube Channel

*LiveCode247*

*Feb. 2023 – Present*

- Teaching the latest web development technologies including **ReactJS**, **NextJS**, **Langchain**, **Stripe** and more on my youtube channel.

## PROJECTS

**Liberty** | *Typescript, React, Chakra UI, WASM*

- Built a **browser based 3D visualisation** of the International Space Station in Realtime.



**QR Code based Entry System** | *Typescript, Python, PHP, Dart, Laravel, React, Flutter*

- A multi platform app for tracking attendance of 2000+ attendees at DPS RK Puram's 50th year celebrations.



**Typewind** | *Typescript, Rust, NextJS*

- Developer and Maintainer on an open source project with **2.1K+ stars**, which combines the safety of Typescript with the versatility of TailwindCSS.



## EDUCATION

**University of Waterloo**

Waterloo, ON

*Bachelor of Applied Science in Computer Engineering*

*Sept. 2023 – Apr. 2028*

## ACHIEVEMENTS

**NASA Space Apps Global Finalists Honorable Mentions** | *Issued by NASA Earth Science Division* Nov 2022

- Awarded to top 80 out of 50000+ teams for building Liberty.