




# 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

### Software Engineer Intern

San Francisco, CA

Helicone AI (YC W'23). 

Sept. 2024 – Current

- Responsible for working on **new features** and **bug fixes** in a very rapid startup environment.
- Worked on features involving the use of **NodeJS**, **NextJS**, **Protobuf**, **HDBScan** based Clustering, **Kafka**, and many more technologies.
- Re-built the major **Experiments** feature from the ground up, a prompt engineering AI-Spreadsheet-Like experience.
- Created multiple NPM and Python Packages including [@helicone/async](https://github.com/helicone/async), [@helicone/helpers](https://github.com/helicone/helpers), [helicone-async](https://github.com/helicone-async) and [helicone-helpers](https://github.com/helicone-helpers).

### Embedded Full Stack Developer

Toronto, Canada

Arcturus Networks Inc.

Jan 2024 – April 2024

- Responsible for solely working on the Brinq Edge AI software on the **NXP i.MX 8M Plus** in a **ReactJS**, **NodeJS** and **C++** App while developing on a **Jetson Xavier NX**.
- Worked on integrating **YOLOv8 object detection**, **occupancy analytics**, and video clip-saving using **ffmpeg**.
- Utilized **OpenCV** to develop a heatmap depicting people intensity on a real-time video stream of **HLS encoded frames** to be showcased at the **Embedded World Symposium 2024** in an **i.MX 93 SoM**.
- Performed major performance optimisation by fixing initial load times of 10-15 seconds and optimising storage using a circular buffer and managed the **deployment**, creating **bash scripts** and **managed Jenkins pipelines** to streamline the process.

### Full Stack Developer

New Delhi, India

Riskshield AI

May 2023 – Sept. 2023

- Solely led the development of an AI-Powered Financial Risk Management web app to deliver financial risk assessment using **NextJS**, **Chakra UI**, **Langchain** and **OpenAI** to perform categorisation of ICFR cycles.

### Lead Web Developer

Remote

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

May 2023 – Sept. 2023

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

### 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

### 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.