Vignesh Prakash

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SUMMARY

Software Engineer with 4 years of work experience, proficient in JavaScript, highly skilled in designing visually stunning and user-friendly Web Components for Single Page Applications using HTML, CSS and multiple MVC Frameworks. I'm also a technical content creator, check out my technical blogs at dev.to & javascript.enthusiast page.

TECHNICAL SKILLS

Languages	JavaScript, HTML, CSS, Typescript, Shell Scripting, SQL, Python
Technologies	Node.JS, Astro JS, React, Next.JS, LESS, SCSS, Git, Flask, Cypress, Figma, PyTorch, AWS, MySQL

PROFESSIONAL EXPERIENCE

Software Engineer, Zoho Corporation — Chennai, India   May 2018 - July 2022

- Revitalized 20+ Zoho products by implementing a robust **Web Code Editor** using Microsoft's Monaco Editor, greatly enhancing their market appeal and boosting sales.
- Engineered a powerful **Drag & Drop website builder**, empowering CRM users to craft real-time templates and components with multiple lifecycle hooks for customization, resulting in a rapid growth of reaching up to 10x more customers.
- Significantly improved stability of the code base by automating unit and end-to-end tests using **Jasmine and Cypress**, resulting in a reduction of release build testing time by 1-2 days.
- Proactively automated cross browser compatibility checks using **Gitlab CI/CD Pipelines and BrowserStack**, minimizing the incompatibility issues, resulted in 5% faster integration with production code.
- Demonstrated leadership skills by effectively **leading a team of 4 developers** by providing constructive feedback, and conducted code reviews to ensure adherence to best practices.

INTERNSHIP

Guided Internship Lead, AI Camp — Palo Alto, California   May 2023 - Present

- Built a **Computer Vision Model** that achieved an F1 score of 0.87 in detecting brain tumors from MRI images. [Website]
- Implemented a **similarity searcher using FAISS** to generate prompts for Zero Shot Learning based on vector embeddings.
- **Mentored 5 students** to develop a handwritten character recognizer, achieving an accuracy rate of 84%. [Pytorch Model]

PROJECTS

Constrained Editor Plugin for Monaco Editor: Developed Node plugin for a most requested features in **Microsoft's Monaco Editor** Portal (#953) by adding restrictions in editable area by manipulating text ranges asynchronously. This package is published with over **700 weekly downloads** & **60+ GitHub stars** Try it here!

Component Code Parser using Espree: Developed more than **30 parsing rules** to extract properties and methods from a UI component's compiled JS file, enabling updates to the Playground Mode on the UI component's homepage.

Image Classifier with ml5.js: Deployed a **React** Website on **Vercel** which predicts the context of the image and labels them with a confidence score using **Mobile Net - Pretrained Machine learning model** Website

Faculty Finder App using Generative AI & LLM: Webscraped contact details of over 100,000 staffs from 2000+ high schools across US, by using multiple **prompt engineering** techniques in **Open AI GPT 3.5 turbo model** at a cost of $0.0003/contact & pushed the details Pinecone which acts as a datasource for a chatbot using LLM. Website

OPEN-SOURCE CONTRIBUTIONS

Microsoft/monaco-html#15: Solved worker failure issue caused due to asynchronous timeouts in Microsoft/monaco-html
Microsoft/vscode#123071: Updated title of the Key binding in shortcuts panel of Microsoft/vscode
ngneat/falso#146: Added RandSport & RandMonth API to Falso, a Node.JS faker library

CERTIFICATIONS

JavaScript Algorithms & Data Structures - freeCodeCamp   SQL for Data Analysis

EDUCATION

Master of Science in Robotics, University at Buffalo   August 2022 - December 2023 (Expected)
Course work: Machine Learning, Reinforcement Learning, Computer Vision & Image Processing   GPA : **3.96/4**

Bachelor of Engineering in Mechanical, Sri Krishna College of Technology, Anna University   July 2014 - April 2018
Course work: Probability, Operations Research   GPA : **3.87/4**