Vignesh Prakash

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SUMMARY

Software Engineer with 4 years of work experience, proficient in JavaScript & Python, highly skilled in designing visually stunning and user-friendly Web Components for Single Page Applications using HTML, CSS and React. 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, Docker, React/JSX, Next.JS, LESS, SASS, Git, Cypress, Figma, PyTorch, AWS, MySQL

PROFESSIONAL EXPERIENCE

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

- Engineered a powerful **Drag & Drop website builder from scratch**, empowering CRM users to craft real-time accessible web-components, resulting in a rapid growth, reaching up to **10x more customers**.
- Revitalized **20+ Zoho products** by implementing a robust **Web Code Editor** using Microsoft's Monaco Editor, greatly enhancing their market appeal and boosting sales.
- Diagnosed & Resolved multiple bugs by automating unit and end-to-end tests using **Jest and Cypress**, resulting in a reduction of release build testing time by **1-2 days** and increased the health of code base.
- Proactively automated cross browser compatibility checks in DevOps Pipeline using **Gitlab CI/CD Actions 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, debugging issues and conducted code reviews to ensure adherence to best practices.

INTERNSHIP

Technical Team 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 NPM package for a most requested features in **Microsoft's Monaco Editor** Github Portal (#953) by adding restrictions in editable area by manipulating text ranges dynamically. This package is published to **npmjs.org** with over **900 weekly downloads** & **70+ 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, Anna University   July 2014 - April 2018
Course work: Engineering Physics, Fundamentals of Programming, Data Structures & Algorithms   GPA : **3.87/4**