PRAJWAL RAMESH

Software Engineer

A seasoned software engineer specialized in Typescript, Node.js, React.js and other frameworks, adept in crafting scalable full-stack applications with a strong grasp of AWS services and Cloudflare workers. Committed to delivering high-quality code. Eager to contribute technical expertise to drive innovation..

EDUCATION

B.E

Atria Institute of Technology

Computer Science Engineering

July 2019 - June 2023

SKILLS

Cloud: *AWS, Cloudflare*

Programming: *Typescript, Javascript, GoLang, Java, Python, Rust(basics)*

Web: *ReactJs, Node.js, Redux, NextJs (Basics), HTML, CSS, GraphQL, Astro, PWA*

Database: *DynamoDB, MySQL, MongoDB, FireBase, Pinecone*

Other: *Git, CI/CD*

COURSES AND CERTIFICATES

Hard Parts of JavaScript [FrontEnd Masters]

API design using Nodejs [FrontEnd Masters]

CONTACT/ONLINE PRESENCE

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WORK EXPERIENCE

Software Development Engineer @ Oslash (June' 23 - present)

- Developed a copilot ,a knowledge base querying system for SaaS products
  - Developed end-to-end query workflow using the concept of **Retrieval augmented generation** , using **pine cone vector db** and deployed the workflow on edge (**CloudFlare worker, NodeJs**)
  - Improved the context relevancy for user queries by implementing chunking on documents in knowledge base (**Python**)
  - Reduced token usage on each openAI call , stabilized the response from openAI cutting down hallucinations by **prompt engineering** ,while maintaining the performance of the system
  - Developed suggestion system using **AWS Lambda, ElasticSearch**
  - Improved the reliability of the system using multi-query approach (generating variantes of user query) , and retrieving the right sources based on frequency count
- Led the **migration of front-end** code base to **micro-frontend architecture** leveraging **CloudFlare workers , Nodejs and React**
  - Removed project interdependency by decomposing a monolithic frontend into modular, independently deployable micro-frontends
  - Implemented a **reverse proxy** to streamline routing to different micro-frontends using **central CloudFlare worker**
  - Developed reusable components that were consumed across micro-frontends
  - Leveraged **IndexedDB** to sync state across multiple micro frontends
  - Implemented central **OAuth2** for authenticating user access to micro-frontend
- Built several **proofs of concepts** on QNA and ChatBot capabilities on stored Data with **Huggingface** and **OPENAI** on **Node.js**
- Used **github workflows** to automate cloudflare worker deployment and sst stack deployment
- Enforced strict coding standards for programming best practices, naming conventions, etc. using **code reviews** & tools like DeepScan
- Tracked tickets and issues in Linear, Git as version control. Worked in **Agile environment**, with daily scrums

Product Engineering Intern @ Oslash (Jan' 22 - June' 23)

- Orchestrated the revamp of shortcut dashboard, using **Astro** delivering an improved user interface while effectively **leading a team of interns**
- Contributed towards the development of Oslash chrome extension, by integrating user-defined content into the snippet on demand

SDE Intern @ Ezyfi Tech. (Aug' 21 - Nov' 21)

- Developed landing page and backend APIs , deployed the APIs as **firebase functions** for an eCommerce platform
- Developed real time audio-text converter using Deepgram's API and **web sockets**