CHINMAY KHAMKAR

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EDUCATION

Master of Science in Computer Science   Jan 2022-Dec 2023
University of Southern California, Los Angeles   GPA : 3.64/4.0
Coursework: Analysis of Algorithms, Web Technologies, Artificial Intelligence, Database Systems, Game Development

Bachelor of Computer Engineering   Aug 2017-May 2021
Maharashtra Institute of Technology, India   GPA : 9.10/10
Coursework: Data Structures, Natural Language Processing, Object Oriented Programming, Computer Networks

SKILLS

Programming Languages: Java, Python, C++, C#, JavaScript, TypeScript, HTML, CSS
Frameworks and Tools: ReactJS, NodeJS, Angular, Android Studio. MongoDB, MySQL, Firebase, DynamoDB, Pinecone, AWS S3, AWS Lambda, AWS Elastic Beanstalk, GraphQL, LangChain, PuTTY, Flask, EJS, OpenCV, Keras, Unity, GIT

EXPERIENCE

Software Development Engineer Intern, Amazon Web Services, Seattle   May 2023-Aug 2023
- Designed a communication channel in Spring framework for IoT devices to access the IoT registry APIs which is part of the **AWS IoT** Core stack via the **MQTT** protocol.
- Migrated existing IoT Registry APIs from controlplane to dataplane which IoT device has access to by unpacking the message object and routing it to its designated API handler.
- Implemented necessary unit tests in **Java Mockito** with code coverage of **95%** and integration tests to deploy the code on pre-production pipeline.

Software Development Engineer, USC Dornsife, Los Angeles   May 2023-May 2023
- Implemented a daily activity tracking web app for a group of scientists with strength of **9k users** similar to Workday.
- Designed API endpoints to store and retrieve data from a **NodeJS** backend with remote **SQL** database and its integration with frontend while maintaining synchronization between local and remote records via **PuTTY**.
- Delivered a responsive web app using **Bootstrap** with features such as create, edit, delete, and save activities.

Software Development Engineer, VelarHealth, Mumbai   Mar 2021-Nov 2021
- Developed frontend of a website including functions such as onboarding, search, appointment booking, API integration etc. for both user and **CRM** side
- Performed bug fixes, code migration from **HTML** to **EJS** to optimize page speed by **15%**, implemented a mailing system to notify the CRM team about various user activities.
- Automated script to convert all leads generated from JSON format to an EXCEL sheet to assist the CRM team and **improved efficiency by 30%.**

Software Development Engineer Intern, Exampil, Mumbai   Dec 2020-Feb 2021
- Built real-time quiz module for students reaching a **user base of 10k+** users to take MCQ-based tests and check scores in comparison with other candidates via leaderboard.
- Integrated the API endpoints on frontend such as user authentication, join quiz, submit quiz, check leaderboard, provided by backend team.
- Delivered dashboard and analytics using **React JS** to keep track of test score and **improved app traffic by 20%.**

PROJECTS

Event Finder
- Engineered an Android application using **Java and Android Studio** to enable users to search and view details of various events, including concerts and sports events, by integrating the Ticketmaster API and Spotify API.
- Created a backend using **Node JS** and hosted it on **AWS Elastic Beanstalk** to enable the app to fetch data from the APIs and provide users with seamless access to events details, seat maps and Spotify artist albums.

LoR (Letter or Recommendation) Manager | GitHub
- Architected web application with aim of assisting college professors and students to manage and keep track of LoRs
- Developed features including user authentication, **CURD operations**, reset **JWT** tokens for both teacher and student portal. **React JS and Node JS** (MERN stack) was used to build this project.

Stackoverflow ChatGPT browser extension | GitHub
- Developed a **Chrome browser extension** for the Stackoverflow website where the question was feed into **ChatGPT** and display its result along with human answers.
- Modified the Stackoverflow website's frontend code to display the results got from ChatGPT and open-sourced the extension **gaining 13 stars on GitHub**.

YouTube and PDF chatbot | GitHub
- Built a chat application using **Open AI embeddings** on YouTube transcripts and PDF documents and **vector database FAISS**.
- Created a web application hosted on **Streamlit** and used **LangChain** with prompt engineering to converse with PDFs and videos.