

Pranav Jayachandran

 Pranav Jayachandran |  Pranav Jayachandran |  pranjpranav@gmail.com |  +91 9995852941

EXPERIENCE

Software Development Engineer at CareStack

June 2024 - Present

- Developed **CsLearn**, an AI-powered chat interface, reducing response times and improving user query resolution rates. Developed using a **RAG** model utilizing **cognitive search** and **GPT** deployments. Developed using **Angular** and **.Net**.
- Designed and implemented services for **UI highlighting** and **feature discovery**, increasing user adoption of new features.
- Developed a **React** extension connected to an **Express** backend to create **visual mapping** needed for **CsLearn**.
- Spearheaded the **microfrontend** conversion of a monolithic module, resulting in faster deployment times and reduction in development overhead.

Freelance FullStack Developer at tweetscreenr.com

Feb 2023 - Oct 2023

- Enhanced project quality by completing comprehensive **unit tests**, optimizing **AWS Lambda** for serverless implementation, and increasing **testing coverage by 30%**.
- Created an efficient **Python Flask** web app for blog entry retrieval from RSS feeds and automatic text to speech conversion. Ensured code quality with thorough **pytest** unit testing with over **60% coverage**.
- Managed **PostgreSQL** database for data integrity and security while deploying the application on **AWS**.

Software Development Intern at CareStack

April 2023 - May 2023 , Jan 2024 - May 2024

- Spearheaded the transformation of a monolithic payment integration into a microservices architecture, achieving a reduction in response times.
- Optimized Azure function utilization, delivering a performance boost and increased scalability.
- Architected and containerized a **.NET MVC** application via **Docker**.

PROJECTS

Graph Visualizer

[Github](#)

- Engineered a web application utilizing **ReactJS**, **Firebase**, and **TailwindCSS** to visually represent graphs. Empowered users to seamlessly add nodes and edges in real-time, enhancing interactive graph visualization.
- Implemented visualizations for essential graph algorithms such as **Breadth-First Search (BFS)**, **Depth-First Search (DFS)**, **Dijkstra's Algorithm** for finding the shortest path between two nodes, and **Minimum Spanning Tree**.

CommunityLink

[Github](#)

- Developed CommunityLink using **React (Typescript)** and **Node.js (Express.js)**, powered by **Supabase** for secure data storage and authentication. Established REST APIs for seamless communication between backend and frontend.
- Obtained optimum performance by deploying the frontend on **Firebase** and the backend on **Vercel**, streamlining deployment and enhancing scalability for an optimized user experience.

Virtual Office

[Github](#)

- Developed an interactive **Virtual Office** platform inspired by Gather, combining real-time collaboration and gamified environments.
- Built using **Angular** for the frontend, **.NET Core** for the backend, and **PostgreSQL** for data storage.
- Implemented the virtual environment using **Phaser**, integrated asynchronous communication with **SignalR**, and experimented with **WebRTC** for video calls.

EDUCATION

2020 - 2024 **BTech in Computer Science** at **College of Engineering Trivandrum**

Current GPA: 8.68/10


SKILLS


C++, JavaScript, ReactJs, Angular, Redux, Flask, SQL, MongoDB, .NET, NodeJs, ExpressJs, Go

ACHEIVEMENTS

[Secured Rank 695 in Google Kickstart 2022 Round H](#)

CODING PROFILES

Codeforces: Expert(rating:1613), Solved over 1400 questions 

LeetCode: Solved over 1000 questions 

Codechef: 4 Star(rating:1803), Solved over 300 questions 