

Pranav Arumugam

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github.com/Pranav-Arumugam

Personal Profile

A Software Engineer graduate student with experience building production-ready UI systems using TypeScript and React, in addition to a strong foundation in C++ and algorithms. Experienced in developing modular and reusable components and combining them with scalable backend systems. Passionate about performance, developer tooling, and building user-facing systems that operate reliably at scale. Curious about GenAI-assisted workflows and continuously improving engineering productivity.

Education

University of Liverpool, MS in Advanced Computer science.

Sept 2024 – Sept 2025

First class with Distinction

Key Modules: Multi-core and Multi-Processor Programming, Privacy and Security, Efficient Algorithms, Data Mining and Visualization, Cloud Computing for E-Commerce, Machine Learning and Bio-Inspired Optimization, Web Mapping

Sri Ramakrishna College of Arts and Science, Bachelor of Computer Application,

June 2020 – May 2023

First Class with Distinction

Key Modules: Numerical Methods and Statistics, Web Programming, Computer Networks, Database Management System, Big Data Analytics, Cloud Computing, Software Engineering, Operating System, Robotic Process Automation, R Programming, Machine Learning, Artificial Intelligence and Expert Systems.

Experience

Freelance Frontend Developer, Madura Creation – Coimbatore, India

June 2023 – Aug 2023

- Developed a **fully responsive** dynamic portfolio website to showcase the client's business services and retail operations, increasing their **online engagement by an estimated 40%**.
- Designed and implemented a **modern, interactive UI** using **React.js and Tailwind CSS**, ensuring **100% mobile and crossbrowser compatibility** for a seamless user experience.
- Optimized website performance, achieving a **50% improvement in page load speed** compared to the previous static website of the client.
- Integrated **SEO best practices** to improve visibility, potentially increasing **organic traffic by 30%**.
- Collaboration & Communication:** Worked closely with the client to understand their business goals, translating their vision into a functional and visually appealing website.
- Time Management & Problem-Solving:** Managed multiple tasks under tight deadlines, efficiently prioritizing and delivering the project on time while addressing client feedback.

Projects

ApplyBuddy – Chrome Extension for Job Applications (*In Progress*)

- Developing a browser extension to streamline job applications and autofill application forms across job platforms.
 - Built with **TypeScript, React, and Manifest V3**, focused on cross-site data injection and secure storage.
 - Syncs application data to **ApplyFlow** backend via secure API, supporting persistent job tracking
 - Includes **context-aware autofill, job tracking, and local storage persistence** to help users manage applications efficiently.
 - Focused on data security, clean UI, and seamless integration across web environments.
- **Tools Used:** React, TypeScript, Tailwind CSS, Manifest V3, Node.js, Express.js

ApplyFlow – Job Application & Interview Management System

- Designed and developed a full-stack web client-style management application to track job applications, manage interview schedules, and evaluate skill-to-role alignment in a single system.
 - Built RESTful APIs using **Node.js** and **Express.js** to handle application and interview workflows with robust data validation.
 - Modeled application and interview data using MongoDB and Mongoose, focusing on maintainable schema design and real-world state transitions.
 - Built a responsive React frontend with routing and calendar-based interview scheduling to visualize timelines and upcoming events.
 - Focused on creating intuitive user flows and reducing friction in multi-step processes reflecting commercial and operational awareness.
 - Emphasized clean data flow, asynchronous state management, and practical system design over demo-style features.
- Wrote component-level tests and validated API responses to ensure reliability during development iterations.
- **Tools Used:** React.js, Node.js, Express.js, MongoDB, Mongoose, Tailwind CSS, REST APIs

Altiora – Personal Development Web App

- Developed and deployed a full-stack personal development platform combining Pomodoro timer, habit tracking, workout logging, and body metrics into a unified interface
 - Developed backend endpoints with **Node.js** and **Express.js**, using routes and middleware to manage user data and connect with the front-end application.
 - Built a secure backend with **Supabase** using PostgreSQL, Row Level Security (RLS), and **JWT authentication** to ensure isolated and protected user data access.
 - Integrated AI-powered suggestion engine via **Groq API** to deliver personalized, context-aware productivity and wellness feedback.
 - Created interactive dashboards with data visualizations and streak tracking, improving user engagement by **30%** during pilot testing.
- **Tools Used:** Next.js, React, Supabase, PostgreSQL, TypeScript, Tailwind CSS, Groq API, Vercel

Skills

Programming Languages: C++, C, Python, JavaScript, SQL.

FrameWorks & Library: React.js, Next.js, TypeScript, Tailwind CSS, Framer Motion.

Backend: Node.js, Express.js, REST APIs, JWT Authentication

Database: PostgreSQL, Supabase, MongoDB (basic), Firebase.

Tools & Platforms: Git & GitHub, Vite, Vercel, Postman, VS Code, Jupyter, Docker, AWS(learning).

Soft Skills: User-focused thinking, curiosity, ownership, Fast Learning, communication, Analytical thinking, rapid learning.

Certifications

- **Python for Beginners** - Great Learning - 17 August 2021
- **Cyber-security Essentials** - CISCO - ICT Academy - 5 Aug 2021
- **Completion of Java Training** - Spoken Tutorial Project, IIT Bombay - 22 April 2021.
- **Theoretical and practical understanding of SQL** - Solo Learn - 22 November 2021
- **Introduction to RPA and Automation** - UI Path - 27 December 2021
- **Introduction to Google Docs** - Coursera - 29 June 2021