

# Pranav Arumugam

/ pranavcr28@gmail.com / 0777 830 3768 / linkedin.com/in/pranavarumugam

github.com/Pranav-Arumugam

## Personal Profile

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Aspiring software developer and Advanced Computer Science master's student at the University of Liverpool with proven experience in web development, performance optimization, and UI/UX design. I bring strong problem-solving skills, adaptability, and a passion for innovation. I offer a keen eye for detail, efficient coding practices, and the ability to develop scalable, high-performance applications. Looking for an internship where I can apply my skills, collaborate on impactful projects, and expand my knowledge in software development while contributing to a dynamic and growth-focused team.

## Education

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**University of Liverpool**, MS in Advanced Computer science.

Sept 2024 – Sept 2025(Expected)

**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,  
First Class with Distinction

June 2020 – May 2023

**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

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**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 cross-browser 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

### QR Code Generator

- Developed a **lightweight** QR code generator application using **Node.js** and the **qr-image** package, capable of generating QR codes **in under 500ms** for rapid access to encoded URLs.
- Ensured **error-free QR code generation** by implementing **input validation and error handling**, reducing invalid input issues by **90%**.
- Tools Used: **Node.js, npm**
- **Attention to Detail:** Ensured high-quality output with minimal errors, focusing on optimizing the user experience by improving code quality and validation processes.

- **Adaptability & Technical Skills:** Applied quick troubleshooting skills to debug issues and iterate on the application's functionality, learning new techniques as needed.

### Student Portfolio Website

- Designed a structured **portfolio website** to showcase the academic journey, projects, and achievements of a student, improving their online professional presence.
- Created a **clean, structured layout** using **HTML5 and CSS**, improving the readability and navigation of the content by **40%**.
- Tools Used: **HTML5, CSS, Web Layout Design**
- **Creativity & Design Thinking:** Crafted an aesthetically pleasing and user-friendly design that aligned with the student's personal branding.
- **Empathy & User-Centered Design:** Focused on the end user's experience, ensuring the design was intuitive and accessible for all users.
- **Prioritized clean structure, accessibility, and user-friendly design principles** to suit educational and healthcare-themed content.

### Madura Creation Portfolio Website

- Designed a **fully dynamic** portfolio website to enhance the client's brand identity and improve customer engagement, leading to a **potential 35% increase in user retention**.
- **Implemented React.js and Tailwind CSS** for a sleek, responsive UI, ensuring smooth interactions and a professional look across **all screen sizes**.
- Performance optimization performed, reducing website load times by **over 50%**, leading to an improved user experience **and lower bounce rates**.
- Tools Used: **React.js, Tailwind CSS, Web Design**
- **Client Relations & Stakeholder Management:** Actively engaged with the client to ensure the project met their expectations, providing regular updates and incorporating their feedback into the final product.
- **Problem-Solving & Innovation:** Overcame challenges in website performance by identifying and resolving bottlenecks, optimizing the user experience across devices.

## Skills

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**Programming Languages:** C++, C, Python, JavaScript, Node.js, Express.js, SQL, HTML, CSS.

**Frameworks:** React.js, PostgreSQL, Tailwindcss.

**Tools:** Vscode, MobaXterm, Jupyter, Postman.

## Certifications

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- **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