

Vigneshwar Raj

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Experienced Software Developer with nearly 2.5 years of expertise in software development, front-end technologies (React, TypeScript), including designing, troubleshooting, and debugging. Skilled in automated testing and UI development, with a focus on scalability and performance. Known for strong interpersonal skills, analytical thinking, and flexibility in previous roles.

Professional Experience

Starbucks Athlone, Barista

Athlone, Ireland
October, 2023-present

- Provided excellent customer service by satisfying customer needs and expectations and made customizations to orders depending on the needs of customers.
- Prepared different types of coffee and drinks with perfection by following the standard procedures.
- Improved my time management skills as I dealt with multiple orders with different specifications at the same time.

Tata Consultancy Services (TCS), Software Engineer

Bengaluru, India
May 2021 - August 2023

- Developed and optimized user interfaces using **React JS** and **Redux** Toolkit within a scalable, component-based architecture, improving application performance and reducing development time by 25%.
- Collaborated closely with the backend team to integrate **REST APIs** with front-end components.
- Implemented **automation testing** (unit & integration testing) using **Jest** and **Cypress** to achieve test high coverage.
- Improved user experience by creating visually appealing and responsive UIs using HTML and **Tailwind CSS**.
- Developed interactive data visualizations using **Highcharts**, Apexcharts, and AG Grid.
- Used ReactContext APIs and integrated with JWT tokens from FastAPI for authentication.
- Led the migration from class components to functional components with **React Hooks**, resulting in a 35% reduction in codebase size and easier maintainability.
- Collaborated with cross-functional teams, business champions (Business Stakeholders), UX/UI Designers, and Scrum Master, to meet client's requirements.
- Experienced working in Agile development following SCRUM ceremonies, sprint planning, retrospectives, and supported CI/CD pipelines with **Jenkins** and Git for optimized deployment workflows.

Technical Skills

Programming Languages: JavaScript (JS), **TypeScript**, **Python**, SQL, HTML, CSS.

Frameworks/Libraries: **ReactJS**, Tailwind CSS. **Cloud:** Azure (cleared AZ-900 certification).

Tools/Libraries: Jenkins, Babel, **Jest**, **Cypress**, Redux, NPM, Bootstrap, Git, jQuery, Kubernetes, Docker.

Methodologies: Agile methodologies, Scrum. **Databases:** MySQL. **Operating Systems:** Linux (Ubuntu), Windows

Soft Skills: Effective communication skills, Project management skills, Problem-solving, Teamwork and collaboration.

Technical Skills: GenerativeAI/LLMs, software development methodologies, Cloud-native technologies.

Education

Technological University of the Shannon, Athlone, Ireland

May 2024

Master of Science in Software Design with Artificial Intelligence

GPA – 2.1

- **Coursework:** Data Mining, Machine Learning, Neural Networks, Data Visualisation, Object Oriented Programming & Programming for Machine Learning.
- **Course Project: Accessible Technology for Effective Communication of Impaired People (Generative AI):**
 - Developed an innovative communication system for visually and speech-impaired individuals using Python and libraries like Speech Recognition, PyAudio, and Librosa. Utilized sound patterns (e.g., claps, snaps) for device interaction, analyzing frequency ranges and time intervals for efficient recognition. Enabled a user-friendly alternative to traditional voice assistants like Siri and Google Assistant.

Amrita School of Engineering, India

May 2021

Bachelor's Degree (BE) in Mechanical Engineering

GPA – 1.1