Thivnesh Kumar Venugopal

UI UX Designer | Front-End Developer

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Portfolio

PROFESSIONAL SUMMARY

UI/UX Designer and Front-End Developer with 3+ years of experience designing and developing enterprise-level analytics and data-driven web platforms within the energy, research, and business intelligence sectors. Skilled in user research, design systems, and building scalable front-end architectures using modern JavaScript frameworks and data visualization libraries. Strong track record of translating complex technical workflows into intuitive, high-impact digital experiences. Currently expanding into full-stack development to deliver complete, scalable end-to-end product solutions.

Currently expanding towards full-stack development to build end-to-end, scalable product solutions.

CORE SKILLS

UI/UX: User Research, Information Architecture, Wireframing, Prototyping, Design Systems, Usability Testing, UAT, Responsive Design

Front-End: Vue.js, React, JavaScript, HTML5, CSS3, Vuetify, Bootstrap, Chart.js, ECharts

Back-End: .NET, PHP, Microsoft SQL Server, MySQL

Tools: Figma, Adobe Creative Cloud, Power BI, Git, VS Code

PROFESSIONAL EXPERIENCE

UI/UX Designer | Front-End Developer, Centre for Research in Data Science (CeRDaS), Institute Of Technology PETRONAS Sdn. Bhd. — Apr 2023 – Present

- Led end-to-end UX and front-end development for multiple enterprise analytics and AI-driven platforms used by engineers, analysts, and management.
- Conducted stakeholder interviews, requirement studies (URS/SRS), design workshops, and usability testing to define user flows, wireframes, and high-fidelity prototypes.
- Designed and implemented responsive, role-based dashboards using Vue.js and advanced data-visualization libraries.
- Translated predictive, prescriptive, and reliability analytics outputs into intuitive, decision-ready interfaces.
- Collaborated with data scientists, backend engineers, and domain experts in agile delivery cycles and led User Acceptance Testing (UAT).

UI/UX Designer (Contract), Institute Of Technology PETRONAS Sdn. Bhd. — Mar 2023 – Apr 2023

- Redesigned technical engineering drawings and system interfaces, improving clarity and usability for domain specialists.

IT Support and Systems Intern, TEM Electronics (M) Sdn. Bhd. — May 2021 – Dec 2021

- Supported enterprise IT infrastructure and developed internal web systems for HR leave management and payroll workflows.

EDUCATION

B.Tech in Information Technology, Universiti Teknologi PETRONAS — Sep 2019 – Dec 2022

- **CGPA**: 3.26/4
- **Major:** Data Analytics with Corporate Management

PROJECTS

- **Predictive and Prescriptive Analytics Dashboard (Energy Domain)**: Designed executive and operational analytics dashboards with interactive KPI and data-visualization components to support decision-making.

- **Digital Look Ahead Plan (LAP)**: Designed and developed a calendar-based web interface to visualize and manage maintenance work orders for an LNG facility, translating complex planning workflows into intuitive scheduling and timeline views for planners and engineers.

- **Rotating Equipment Reliability Platform**: Led UX and front-end for condition monitoring, anomaly detection, and time-series visualization modules.

- **Corrosion Analytics and Engineering Visualization System**: Digitized and redesigned complex engineering schematics into interactive system views.

- **Enterprise BI and Management Portal**: Designed role-based dashboards, workflows, and reporting interfaces; conducted usability testing and iterative improvements.

- **Mobile App UI/UX (Consumer)**: Designed end-to-end mobile user flows and high-fidelity prototypes in Figma.

- **Full-Stack Web Systems**: HR Leave Management System (PHP, MySQL); Campus Food Ordering Platform (Web UI, Database, Admin and User Interfaces).

CERTIFICATIONS

IBM Data Analyst Professional Certificate | Microsoft Excel for Data Analysis – **Coursera**

Participations

PETRONAS SECURE NEX Hackathon   November 2025

- I served as a mentor for a student team during the PETRONAS SECURE NEX Hackathon, a cybersecurity coding hackathon organised by UTP CeRDaS and PETRONAS Group Security.

CeRDaS Appreciation Night 2024 at Menara Kuala Lumpur   February 2024

- I was involved in this launching event to create the event montage, banner, and design the opening ceremony signature plaque.

Security Analytics Lab by PETRONAS Group Security and UTP CeRDaS   October 2023

- I was involved as a media person in this launching event to create the event montage, banner, and design the opening ceremony signature plaque.