PAGALAVAN VETRIVENDHAN
SOFTWARE DEVELOPER

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Technical Skills

- **Frontend Development:** React.js, JavaScript, TypeScript, HTML, CSS, Bootstrap, React Router, Angular
- **State Management & Optimization:** Redux Toolkit, React.memo, useMemo, React.lazy, RxJS, NgRx
- **Backend & API Development:** Node.js, Express.js, NestJS, RESTful APIs, JWT, OAuth
- **Database & Data Handling:** MSSQL, PostgreSQL, Prisma ORM, Azure Data Factory (ADF)
- **Tools & Best Practices:** Git, GitHub, Postman, Azure DevOps, SOLID Principles, Agile, Scrum

Education

B.E - Electronics and Communication Engineering, Kongu Engineering College — **Aug 2018 – Apr 2022**
- GPA: 8.59/10 with **First Class** Distinction

Higher Secondary Education, Sree Vetri Vikas Matric Hr Sec School — **Jun 2017 – Apr 2018**
- Percentage: 88.8

Experience

Software Engineer - Accenture | 2.9 Years — Nov 2022 - Present

Frontend Development
- Built **scalable UI components** using **React.js**, improving code structure and maintainability.
- Managed application state using **Redux Toolkit**, **useReducer**, and **Context API** for predictable data flow.
- Optimized rendering with **React.memo**, **useMemo**, and lazy loading via **React.lazy** and **Suspense**.
- Implemented **protected and nested routes** using **React Router v6**, enabling role-based navigation control.
- Developed standalone **Angular modules** using **RxJS**, **NgRx**, and **Signals** for reactive state handling.
- Applied **lazy loading** and **change detection optimization** in Angular to enhance app performance.
- Practiced **Agile and Scrum**, leveraging **Azure DevOps**, **Git**, and **CI/CD pipelines** for efficient project delivery.

Backend Development
- Built **RESTful APIs** with **Node.js, Express.js**, ensuring secure data and **JWT/OAuth authentication**
- Developed **server-side logic** with optimized **database interactions** for high performance

Database
- Designed and optimized **SQL queries** and **stored procedures** for **efficient CRUD operations and analytics**
- Automated **ETL pipelines** using **SSIS and Azure Data Factory**, ensuring **reliable data integration**

Projects

Postgram - Angular, Express.js, MSSQL, JWT, Bcrypt, REST API — Postgram
- Built a **MEAN stack** application to facilitate **real-time post creation**, enabling collaborative user interaction.
- Implemented **role-based access** control, **error handling**, and smooth **frontend-backend communication**.
- Deployed on **Netlify** and **Render**, leveraging **cloud platforms** for scalability and efficiency.

Cafe Management - NestJS, Prisma ORM, PostgreSQL, JWT — Documentation
- Designed a **modular backend** to manage roles, reservations, and bookings with **Prisma** and **PostgreSQL**.
- Improved data handling **efficiency** with **schema-based** separation and optimized workflows.
- Automated **API integration** and streamlined developer onboarding with comprehensive **API documentation**.