

# JONES PETER

## SOFTWARE DEVELOPER

 [www.jonespeter.in](http://www.jonespeter.in)

 +91-9597497429

 [jonespetersoftware@gmail.com](mailto:jonespetersoftware@gmail.com)

### SUMMARY

Software Engineer with 4 years of experience building scalable mobile, web, desktop, and automation-driven software solutions. Strong expertise in Python development, including desktop application development with PyQt5 and PySide6, and full-stack engineering using React, Next.js, Django, PHP, and SQL-based systems. Experienced in designing and developing cross-platform desktop applications, automation frameworks, and business-critical tools that streamline workflows and improve productivity. Built automation solutions that significantly reduced manual processing time, improved operational efficiency, and increased data accuracy across inventory, ERP, railway signalling, and engineering workflows.

**Author of the JsWeb framework**, a custom Python-based, blazing-fast modern ASGI web framework built on an API-first architecture following the MVC design pattern, with automatic API documentation support. Passionate about building efficient, reliable, and high-impact software systems.

### SKILLS

- **Languages:** Python (Advanced), JavaScript, PHP, Java, C/C++, C#, VB
- **Frontend:** React JS, Next JS, HTML5, CSS3, Bootstrap, Qt
- **Desktop Development:** PyQt5, PySide6, Qt, C++ Qt
- **Backend:** JsWeb (Author), Django, Flask, PHP, ASP.NET
- **Mobile:** React Native, Flutter, Android (Java)
- **Databases:** MySQL, Firebase, Oracle, SQL
- **Automation & Tools:** Python Scripting, AutoCAD Automation, Linux, Git
- **Concepts:** Data Structures, Algorithms, System Design, Problem Solving

### EDUCATION

- **Bachelor of Science in Computer Science (First Class)**  
Sri Parama Kalyani College, Alwarkurichi - **Graduated: June 2022**

### EXPERIENCE

#### Software Engineer (Team Leader)

Unified Signalling and Transportation Systems Pvt. Ltd. – Hosur

#### 07/2022 - Present (4 years)

- Designed and implemented automation frameworks reducing manual workflow effort by up to 40%.
- Developed enterprise-grade desktop applications and engineering automation tools using Python, PyQt5, PySide6, C++, and Qt, streamlining data processing, workflow automation, and operational efficiency across engineering projects.
- Built and deployed full-stack web systems using Next JS, PHP, JavaScript, HTML/CSS, and SQL databases.
- Created internal tools that automated repetitive engineering and documentation tasks.
- Led development tasks, coordinated workflows, and provided technical direction within the team.

## PROJECTS

**JsWeb Python web Framework** - Designed and developed JsWeb, the Blazing-Fast, Modern ASGI Python Web Framework, a custom Python web framework featuring built-in routing, templating, CLI tooling, automatic API documentation, API-first architecture, MVC design pattern, and a custom database migration engine that simplifies project setup and schema management for developers.

<https://jsweb-framework.site/>

**AutoCAD Automation Python Library (Published)** - Developed and published a comprehensive Python library that automates AutoCAD workflows via the COM interface, enabling programmatic creation and manipulation of drawing entities, layer and block management, metadata access, view control, and robust error handling for streamlined CAD automation. <https://jsweb-tech.github.io/AutoCAD/>

**JSON Wombat** – Developed and published a cross-platform JSON editor and IDE using **Python and PyQt5**, featuring a multi-tabbed interface, syntax highlighting, JSON tree navigation, pretty-printing/minification, dockable find-and-replace, session management, theme customization, and real-time status monitoring. Designed to simplify the viewing, editing, validation, and management of complex JSON data structures for developers and data analysts. <https://github.com/Jones-peter/JSON-Wombat>

**Dotly – AI-Powered Braille Translation Mobile App** – Developed a Flutter-based mobile application that converts Braille images into readable text using a combination of specialized OCR and Generative AI technologies. Integrated Angelina Reader for Braille recognition, Gemini AI for translation refinement, Firebase Firestore for cloud-based scan history storage, and text-to-speech capabilities for accessibility. Implemented real-time translation updates, remote configuration management, and Braille learning features, creating an intelligent accessibility platform for Braille interpretation and education. <https://github.com/Jones-peter/dotly>

**ERP Management System (Unified STS)** - Sole Developer of an internal ERP platform used to manage employee records, office operations, and automated email communication. Designed and implemented the complete system architecture, database structure, and application logic using PHP, MySQL, and JavaScript. Streamlined administrative workflows and improved data organization across departments.

**AI-Powered Finance Tracker Application** - Developed an AI-powered full-stack personal finance tracking web application using React, Next.js, and Firebase. Implemented intelligent features for expense analysis and financial insights, enabling users to track spending patterns, manage budgets, and store data securely in the cloud with real-time synchronization. <https://github.com/Jones-peter/FinanceTracker>

**Lakshmi Traders Inventory Management System** - Developed a full-featured inventory and wholesale management platform for Lakshmi Traders using Next.js, Firebase (Authentication & Firestore), and TypeScript. Implemented features for batch tracking (type, quantity, cost), customer management, sales recording, reporting & analytics, and secure admin authentication with real-time updates. Designed responsive UI using modern component libraries and structured the application for maintainability and scalability.

<https://github.com/Jones-peter/LakshmiTraders>

## LINKS

- **Portfolio:** <https://jonespeter.in/>
- **GitHub:** <https://github.com/Jones-peter>
- **LinkedIn:** <https://www.linkedin.com/in/jones-peter-121157221/>
- **PyPI:** [https://pypi.org/user/Jones\\_peter/](https://pypi.org/user/Jones_peter/)