**Debanik Pahilwani**

**Software Engineer (Backend Developer specializing in API Development)**

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**Profile Summary**

Backend Developer with 1+ year of experience in building scalable, high-performance server-side applications using Node.js, Express.js, TSOA, and PostgreSQL. Proficient in designing, testing, and deploying RESTful APIs for seamless mobile and web integration. Experienced with Docker for containerized deployments and Google Cloud Console for JavaScript Map APIs, enabling geospatial data handling. Optimized TSOA API performance, reducing response times by 40%, and enforced security best practices (OAuth, JWT, RBAC) to enhance system reliability. Familiar with deployment using CI/CD pipelines.

**Education**

**B Tech CS (Core) 2020 - 2024**

Medi-Caps University | Indore, India **GPA: 8.3**

* **Course Work:** Data Structures and Algorithms, Design and Analysis of Algorithms, Python Programming, C-Programming, Java Programming, Machine Learning, Theory Of Computation, Computer Systems and Architecture.

**12th Standard**   **2019 - 2020**

Choithram School | Indore, India **GPA: 8.7**

* Won High Commendation in MUN (Model United Nations) for excellent debating skills and ability represent allotted country as a delegate.
* **Course Work:** Physics, Chemistry, Mathematics

**Experience**

**Backend Developer Feb 2024- Present**

Navigo TechLabs Pvt. Ltd.| Indore

* Spearheaded robust and secure backends using NodeJS, ExpressJS and PSQL
* Built a Mobile Application within a 3-month sprint
* Optimized OpenAPIs for integration with ReactJS front-end, reducing overall testing time by 50% for four projects

**Web Developer Intern Jun 2023- Aug 2023**

BrainTree Products Pvt Ltd | Indore

* + Learnt About PHP and how it is used in Web Development alongside HTML, CSS and JavaScript. Gained insight on how a backend works using **Xampp** and made 2 mini-projects.

**Core Skills**

* **Programming Languages:** C++, Python, JavaScript, TypeScript.
* **Databases & Query Languages:** SQL, PostgreSQL.
* **Web Technologies:** HTML, CSS.
* **APIs:** RESTful API, OpenAPI.
* **Libraries & Frameworks:** ReactJS, Material-UI (MUI), ExpressJS, Node.js, TypeORM, TSOA, JWT (JSON Web Token), Multer, FFMPEG, HSL.
* **Communication Protocols:** MQTT, WebSocket.

**Tools**

* **Development Environments:** VSCode, NetBeans
* **Database Management:** XAMPP, phpMyAdmin, SQLyog, PgAdmin4
* **Cloud & Collaboration:** Google Colab, Google Cloud Console

**Projects**

**Employee Management System:**

* Designed and Developed **WorkHive,** Using PERN stack (PostgreSQL, ExpressJS, ReactJS, NodeJS)
* Implemented RBAC (Role Based Access Control) to ensure seamless hierarchy between different users, with 10+ workplace features like attendance management, Leave Requests and HR-Letters reducing manual processing time by 40%
* Designed a user-friendly and eye catching front-end increasing user engagement by 25%

**E-Commerce Website:**

* Constructed **FastKart**, an E-commerce Platform using PHP, HTML, CSS and JavaScript.
* Created an admin panel with secure login, enabling product authorization and inventory management, reducing manual inventory review time by 45**%**
* With smooth and seamless front-end, gave users access to 20+ home décor products.

**Telematics Test Server**

* Developed a **Telematics Test Server** for a confidential client using ReactJS, NodeJS, and Socket.IO to aid hardware development for the organization, enabling seamless access to hardware data and accelerating debugging, which upon implementation streamlined the development process and helped the client deliver a project 6 days ahead of schedule.