PAWAN KUMAR

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SKILLS

Typescript, Javascript, Node.js, Python, FastAPI, React.js, Express, NestJS, ORMs, Relational Databases, Linux & Docker, Restful API, AWS & Azure Cloud, OAuth, Caching, Nginx, OOP, Java, Google-Guice

Limited Exposure: [GraphQL, React-Native, Next.js & Expo, Message Queues (RabittMQ, BullMQ), Kafka, Monitoring tools (Grafana, Loki, Prometheus), NoSQL Databases, System Design]

Quick Adaptability, Proactive and Effective Communication skills, Would love to do Systems or Meta Programming

WORK EXPERIENCE

AinoSoft - **Software Developer (Backend)**   Sep 2024 - Dec 2024 (3 months)

- Developing a robust **Java** framework for a microservices architecture, leveraging Google Guice for **dependency injection** (DI), **reflection** for dynamic invocations, and discovery mechanisms to ensure flexibility and scale.
- Contributing to the development of a zero-code application and services builder product, streamlining the creation of customizable, scalable solutions using **OOP principles** and the framework's dynamic features.

CarVach - **SDE Intern**   Feb 2024 - Sep 2024 (7 months)

- Designed and implemented a highly scalable and performant unified API platform for connected vehicle data, capable of handling millions of concurrent vehicle data streams, **optimizing response times by 70% through performance tuning**.
- Contributed to a fleet management system by adapting an open-source codebase, incorporating features such as driver attendance tracking, and integrating with OpenStreetMap APIs for location-based services.
- Single-handedly architected, planned, and developed a Fleet Management System (FMS) using microservice architecture, with comprehensive documentation using Swagger, implementing caching, database design, API endpoints, input validation, and more to ensure a scalable solution.
- Worked closely with Chief Executives and the CTO to iterate and validate the product-market fit, providing technical insights and ensuring alignment between the product vision and business objectives.
- Quickly ramped up on PHP, Python, and frameworks like Laravel and FastAPI, despite no prior experience.

Wictronix - **Web Developer Intern**   January 2023 - March 2023 (3 months)

- Contributed significantly to the success of multiple projects.
- Played a key role in optimizing API speed, resulting in a **remarkable 40% reduction in response time** and notable improvements in overall system performance.
- Revamped website with new design using React.js, resulting in **45% increased user engagement and 30%+ developer productivity boost** through reusable components.
- Engaged in thorough code reviews, actively participated in bug fixes, and provided valuable insights during troubleshooting sessions, ensuring the delivery of high-quality software solutions.

SIDE PROJECTS

Torrent Client - **Node.js, React.js**   June 2023 - June 2023

Engineered a performant video streaming service, utilizing Node.js Streams, Realtime video transcoding using FFMPEG, Adaptive bitrate streaming & more advanced techniques like HTTP Live Streaming(HLS) protocol which ultimately resulted in **smooth video playback and minimum latency.**

EDUCATION

X and XII Science, St. Carmel School, Rupnagar   2017 and 2020
Bachelor of Computer Science and Engineering, Chandigarh University   2020 - 2025