PAVAN KALYAN ANDE

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Portfolio: https://kalyanande47.github.io/My-Portfolio/

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OBJECTIVE

Aspiring Software Developer with 2.5 years of experience, specializing in Python, JavaScript, and backend API development. Passionate about solving complex problems, improving system efficiency, and contributing to impactful projects in a collaborative environment.

SKILLS & CERTIFICATIONS

- **Programming Languages:** C, Java, Python
- **Web Technologies:** HTML, CSS, JavaScript(ES6+)
- **Database Systems:** MongoDB,MySQL
- **Tools Platforms:** GitHub, Postman, VS Code, JIRA, Excel
- **Concepts:** RESTful APIs, CRUD Operations, Unit Testing (PyTest), Agile Methodology, CI/CD (basic), JSON/XML parsing, Error Handling
- **Certifications:** Fundamentals of Data Analytics in Coursera, Data Science with Python in SimpliLearn

EXPERIENCE

- **Infosys**   *July 2021 - December 2023*
Senior Systems Engineer (Python Developer)   Hyderabad, India
  - Designed, developed, and deployed 25+ RESTful APIs using Python, FastAPI, and MongoDB, improving backend response time by 30
  - Built modular Python components for data preprocessing and transformation, increasing code reusability across multiple services.
  - Utilized Pandas for advanced data manipulation, enabling rapid test data generation and transformation for QA teams.
  - Optimized MongoDB queries and indexing strategies, resulting in a 20–40% boost in query execution performance.
  - Designed scalable API architectures with FastAPI routers, dependency injection, and async handling to support high-volume requests.
  - Implemented Pydantic models for data validation in FastAPI, ensuring clean input/output schemas and robust type checking.
  - Automated backend workflows and scripts for internal tools, saving developers several hours per week.
  - Participated in code reviews and provided mentorship to junior developers, promoting clean coding standards and best practices.
  - Collaborated with cross-functional teams (QA, DevOps, UI) to ensure seamless integration of APIs and backend systems.
  - Implemented secure API authentication using tokens and roles, contributing to compliance with data security protocols.

- **Infosys**   *February 2021 - May 2021*
Intern   Remote
  - Contributed to front-end development by supporting HTML and JavaScript-based UI enhancements and fixes.
  - Assisted in debugging and resolving UI-related issues to ensure smooth user interactions.
  - Applied logical thinking to implement interactive features and validations using JavaScript.
  - Optimized web pages for performance, accessibility, and responsiveness.
  - Gained hands-on experience in enhancing user experience through efficient code structuring and design improvements.

PROJECTS

- **RESTful API Mock Server:** For College Student Attendance Management Portal
  - Developed a fully functional mock server using FastAPI and MongoDB to simulate backend services.
  - Implemented complete CRUD operations, enabling easy testing and integration with frontend apps.
  - Integrated Swagger UI for seamless API documentation and interactive exploration of endpoints.

- **Data Cleaning and Visualization Tool**
  - Created robust Python scripts using Pandas to clean, transform, and preprocess large datasets.
  - Leveraged Matplotlib to generate insightful visualizations for pattern analysis and reporting.
  - Automated the entire data pipeline to support repeatable analysis and improve decision-making accuracy.

EDUCATION

- **KL University** *June 2017 - April 2021*
  B Tech Computer Science and Engineering Vaddeswaram, Guntur, India
  - GPA: 8.01/10.00

- **Raman Bhavan III** *May 2017*
  MPC Vijayawada, India
  - Grade: 95.9%

- **Sri Chaitanya Techno School** *May 2015*
  Secondary Education Repalle, India
  - GPA: 9.5/10

VOLUNTEER EXPERIENCE

- Assisted students in registering for EAMCET exams, ensuring successful and timely application submissions.
- Helped local villagers with voter ID registration and guided them through various government service applications.
- Promoted digital awareness and provided support for navigating online government portals.
- Led and coordinated club activities focused on Augmented Reality (AR) innovation and learning.

FREELANCE PROJECTS(2024)

- Assisted multiple college students in completing academic and internship projects by developing custom Python applications and backend APIs.
- Built RESTful APIs using FastAPI and MongoDB for web apps such as inventory systems, attendance trackers, and mini-CRMs.
- Delivered projects involving data preprocessing and automation scripts using Python (Pandas, NumPy).
- Helped students with frontend enhancements using HTML, CSS, and JavaScript to make their interfaces responsive and presentable.
- Provided project documentation, deployment guidance, and one-on-one mentoring sessions to help students understand the codebase and defend their projects.
- Handled end-to-end development from requirement gathering to final delivery, ensuring deadlines were met with clean, reusable code.