

Ravi Teja Reddy Purini

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[Portfolio](#)

Professional Summary

Dynamic and results-driven **Full Stack Developer** with a proven track record of delivering high-quality web applications and solutions. Possessing strong expertise in front-end and back-end technologies, including **HTML, CSS, JavaScript, React, FastAPI, and SQL**. Experienced in designing and implementing **RESTful APIs, microservices architecture**, and ensuring application security through robust authentication and authorization mechanisms. Adept at collaborating with cross-functional teams in **Agile environments** to analyze requirements, architect solutions, and deliver projects that meet or exceed client expectations. Committed to staying updated with emerging technologies and best practices in software development to drive innovation and continuous improvement.

Work Experience

LSP Management Limited – Edinburgh, United Kingdom

Data Analyst - Intern

April 2024 – Present

- **Designed and optimized SQL queries** to extract, validate, and integrate data from multiple sources, ensuring data accuracy and readiness for analysis across various projects.
- **Conducted advanced exploratory data analysis** using Python and Tableau, identifying key trends, outliers, and performance anomalies to drive data-informed decisions.
- **Developed interactive dashboards** with advanced features like drilldowns, filters, and conditional formatting, enabling stakeholders to visualize critical KPIs and streamline reporting workflows.
- Automated **data cleaning and transformation pipelines** using Python libraries (Pandas, NumPy), reducing manual effort by 40% and improving the consistency of datasets.
- Collaborated with cross-functional teams to **define data requirements**, ensuring alignment with project goals and stakeholder expectations.
- Delivered **weekly data insights presentations** to management, translating complex analyses into actionable recommendations that improved operational efficiency.

Tata Consultancy Services – HYD, INDIA

Software Engineer

Oct 2021 – Nov 2022

- **Developed and maintained full-stack web applications** using React for the frontend and FastAPI for the backend, delivering scalable and high-performance solutions.
- **Built interactive and responsive user interfaces** using React, implementing reusable components and state management to enhance user experience and maintainability.
- **Designed and implemented RESTful APIs with FastAPI**, enabling seamless integration between front-end applications and backend services, and supporting both synchronous and asynchronous processing.
- **Implemented user authentication and authorization** using OAuth2 and JWT in FastAPI to secure API endpoints and ensure data privacy.
- **Optimized application performance** through the use of caching, asynchronous programming, and lazy loading techniques, resulting in a significant improvement in load times and resource utilization.
- **Integrated third-party services and APIs** to extend application functionality, such as payment gateways, notification systems, and data analytics platforms.
- **Worked with SQL databases for data storage and retrieval**, creating efficient queries and ensuring database performance optimization.
- **Conducted code reviews and implemented best practices** for coding standards, version control (Git), and CI/CD pipelines, ensuring the quality and reliability of the codebase.
- **Tested and debugged applications using Selenium and unit testing frameworks**, ensuring robustness and minimizing defects in production environments.

Key Achievements:

- Spearheaded the development of a microservices-based architecture using FastAPI, which led to a **15% improvement in application performance**.
- Successfully reduced average page load time by **30% through front-end optimization techniques** such as lazy loading and code splitting.
- Played a key role in a major system migration, **transitioning a legacy system to a modern React and FastAPI stack**, resulting in enhanced maintainability and scalability.

Keka – HYD, INDIA

Software Engineer – Intern

Nov 2020 – July 2021

- Worked within the Workforce Management division, focusing on **Leave Management, Timesheet Management, and Approval Chain processes**.
- Conducted comprehensive testing of product components to ensure functionality and quality assurance.
- Gained proficiency in **front-end development** principles and utilized version control systems, particularly **Git**, to manage project iterations effectively.
- Collaborated with team members to identify and resolve issues, contributing to the overall improvement of **product performance**.

Education

University of East London

Master's in computer science

Jan 2023- Present

Dockland, London

Vignan's University

Bachelor's in computer science

July 2017- May 2021

Guntur, Ap, India

Academic Projects

Pothole Detection System (Master's Project)

- Designed and developed a machine learning-based pothole detection system as part of a master's research project.
- Utilized machine learning algorithms and computer vision techniques to detect potholes from images captured by onboard vehicle cameras.
- Implemented the system using Python and popular machine learning libraries such as TensorFlow and OpenCV.
- Conducted extensive testing and evaluation to assess the accuracy and performance of the pothole detection system.
- Presented findings and project outcomes at academic conferences or seminars, showcasing expertise in machine learning and its real-world applications.

Vignan Supermarket Website (Bachelor's Project)

- Developed a fully functional website called Vignan Supermarket using HTML, CSS, and JavaScript for front-end development.
- Implemented backend functionality using JDBC (Java Database Connectivity) and JSP (Java Server Pages) for dynamic content generation and database interactions.
- Designed an intuitive user interface for seamless navigation and enhanced user experience.

- Demonstrated proficiency in full-stack development principles and gained practical experience in building web applications from scratch.

Technical Skills

Languages

C, Java, Python, Java Script.

Front End

Html, CSS, React, Bootstrap, Material UI.

Back End

FastAPI, Spring (Basics).

Database Management

My-SQL, MongoDB, PostgreSQL.

Testing

Selenium.