Kapil Shyam Pawar

Arlington, TX | (682) 406 8760 | kxp5534@mavs.uta.edu | LinkedIn | GitHub | Portfolio

EDUCATION

University of Texas at Arlington, College of Engineering, TX, USA **Fall 2023 - Spring 2025**

Master of Science (MS) in Computer Science (CS) / GPA: 3.7

Relevant coursework: Data Structure & Algorithms, Cloud Computing & Big Data, DBMS, Machine Learning, Data Mining, Linux

Vivekanand Education Society's Institute of Technology, India **June 2018**

Bachelor of Engineering (BE) in Electronics & Telecommunication

SKILLS AND EXPERTISE

Databases: Oracle, MySQL, MongoDB, Firebase, SAP, PostgreSQL, Relational Databases, SAP S/4 Hana, NoSQL

Programming Languages: JavaScript, TypeScript, HTML5, CSS, Python, Java, Kotlin, C, C++, C#, SQL

Technologies: Next.js, React.js, Node.js, Angular.js, Vue.js, Tailwind, Bootstrap, AWS, Azure DevOps, Docker, Kubernetes, Git, GitHub, Google Cloud Platform, REST API, SOAP API, Linux/Unix, CI/CD, Power BI, Android SDK, Android Studio, GraphQL, SAP Cloud Platform, SAP Business Technology Platform

EXPERIENCE

Accenture **October 2018 - July 2023**

Senior Software Enginner

Full-Stack *Next.js, Typescript, Tailwind, MongoDB, Docker*

- Led full-stack development of an E-commerce platform using Next.js, resulting in a 25% reduction in page load times, a 35% increase in customer engagement, and a significant revenue boost of €6 Million per year.
- Designed a visually pleasing user interface, leveraging the framework's dynamic routing capabilities, component-based architecture, and Tailwind CSS to create responsive and pixel-perfect layouts across various devices and screen sizes.
- Established agile software development lifecycle with CI/CD pipelines, code reviews, automated testing, and iterative sprints, enabling faster feature development and higher quality code, reducing defects by 40%.
- Containerized frontend and backend microservices with Docker, cutting deployment time by 70% and resource usage by 60%, managed efficiently through Kubernetes orchestration for enhanced scalability and performance.

Front-End *React.js, Express.js, Node.js, Javascript, Restful API, Git*

- Optimized legacy REST APIs by refactoring redundant code, implementing caching, and migrating to GraphQL, resulting in an average server response time improvement of 75%, from 800ms to under 300ms.
- Implemented React Context API for global state management of themes, user profiles, and cart data, eliminating prop drilling through multiple components and improving code reusability.
- Developed comprehensive unit test suite using Jest and React Testing Library for new client-facing web apps, achieving over 90% test coverage and reducing defects by 30% after integration.
- Analyzed and resolved over 300 front-end Jira tickets for existing client applications, diagnosing bugs, implementing new features, and optimizing UI/UX through iterative collaboration with product and design teams.
- Instituted Git workflows utilizing branching strategies, pull requests, and semantic commits to strengthen collaboration, accelerate release cycles by 40%, and drive faster feature development across multiple front-end applications.

COURSE PROJECTS

Runtime Analysis for Sorting Algorithms *Python, Tkinter, Matplotlib*

- Developed a Python GUI utilizing Tkinter, facilitating real-time analysis of sorting algorithms including Bubble, Merge, Quick, Insertion, Heap, and Selection sorts. Enables user input or random list generation with up to 20,000 elements.
- Implemented Matplotlib for dynamic visualization of algorithmic efficiency, empowering users to analyze and compare sorting algorithms' performance in real-time, enhancing understanding and decision-making.

ToDot *OpenAI, Pinecone, Next.js, TypeScript, Prisma*

- Engineered an AI-driven to-do list web app, leveraging OpenAI API for an intelligent chatbot providing rapid task-related assistance. Utilized Pinecone API for efficient task categorization, enhancing organizational accessibility.
- Integrated MongoDB, Prisma, and Clerk to establish a robust backend for secure data storage, efficient operations, and seamless user authentication, ensuring reliability and scalability of the to-do list application.

Online Delivery Database Management System *Relational Database, Oracle, EER Model*

- Developed a robust relational database system utilizing Oracle SQL and EER (Enhanced Entity-Relationship) model concepts, optimizing online delivery operations for enhanced order tracking and management efficiency.
- Utilized SQL queries to generate comprehensive reports based on database analytics, providing actionable insights into order trends, inventory levels, and delivery performance, facilitating informed decision-making and strategic planning.