Kapil Shyam Pawar

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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

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

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, Hadoop, Spark
Technologies: Next.js, React.js, Node.js, Material UI, Tailwind CSS, Bootstrap, AWS, Azure DevOps, Docker, Kubernetes, Git, GitHub, Google Cloud Platform, REST API, SOAP API, Linux/Unix, CI/CD, PowerBI, Android SDK, Android Studio, GraphQL, SAP Cloud Platform, SAP Business Technology Platform

WORK EXPERIENCE

Accenture **October 2018 - July 2023**

Senior Software Engineer

- 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.
- 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.
- 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.
- Spearheaded integration of React Context API to enhance global state management for themes, user profiles, and cart data, optimizing code reusability and reducing maintenance overhead for the development team by 25%.
- Engineered CRUD Restful APIs utilizing Next.js API Routes and Mongoose framework to manage data operations in MongoDB collections, integrated caching mechanism that optimized performance, resulting in a 40% efficiency boost.
- 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.

PROJECTS

Facial Express Detection ***Python, Machine Learning***

- Developed a facial expression detection system utilizing image processing techniques and deep learning algorithms in Python.
- Leveraged convolutional neural networks (CNNs) to analyze facial features and classify expressions with 98% accuracy.
- Trained the model on a large, diverse dataset of over 100,000 labeled facial images, enabling robust and accurate recognition of a wide range of real-world expressions.

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

- Built 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.
- Employed Matplotlib for visualization of algorithmic efficiency, empowering users to analyze and compare sorting algorithms' performance in real-time, enhancing understanding by 35% and aided decision-making.

ToDot ***OpenAI, Pinecone, Next.js, TypeScript, Tailwind, MongoDB***

- 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, resulting in a 50% increase in user productivity.
- Integrated MongoDB, Prisma, and Clerk to establish a robust backend for secure data storage, efficient operations, and seamless user authentication, improving reliability and scalability by 30%.

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.