Ashutosh Kumbhar

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EXPERIENCE

Software Developer   **August 2023 – August 2024**
Western Union   *Full-Time*

- Contributed to developing and maintaining the Western Union POS retail application, ensuring seamless functionality and performance.
- Developed **Point Of Sale Development Utility**, which boosted developer **efficiency by 70%**.
- Collaborated in the migration of **WUPOS** from Apache Tapestry to Angular 14, resulting in **a 15% increase in revenue**, significant improvements in both agent and user experience, and **expanded market share** through modernized front-end architecture.
- Executed a Test-Driven Development (TDD) strategy within teams using the **Playwright** framework.

Software Engineer   **June 2022 – February 2023**
MindsClik Digital Solutions   *Part-Time*

- Developed a white-labeled e-commerce solution, which evolved into a **core product** offering.
- Introduced and integrated **Flutter** as a new application stack, resulting in enhanced performance and increased development productivity.

Full-Stack Developer   **January 2021 – June 2022**
LinkCode Technologies   *Part-Time*

- Designed the architecture for the LinkCode LMS, driving the organization's digital transformation and resulting in a **35% increase in revenue**.
- Managed a team of **10 developers**, overseeing the collective development and implementation of the software.
- Migrated the entire infrastructure to a server-less architecture using AWS **Lambda**, enhancing scalability and cost-efficiency.
- Implemented **Web-RTC** for video conferencing, improving real-time communication capabilities.
- Established CI/CD pipelines with Jenkins, optimizing development workflows and deployment processes.

Full-Stack Development Intern   **April 2020 – September 2020**
Aitheon   *Internship*

- Created a **no-code** application development platform using Visual Studio Web, Node.js, Node-RED, and Vue.js, enabling users to create applications without traditional coding.
- Development of **IoT** applications leveraging Robot Operating Systems, NVIDIA Jetson Nano, and Code-Studio.

PROJECTS

Online Compiler Web IDE | *Docker, Kubernetes, Redis, Node.js, Angular, Nginx*

- Developed a cloud-based platform to support 10+ programming languages, enabling developers and students to perform heavy computation and application development without local hardware.
- Implemented a bare-metal server using QEMU and Ngrok for cost-efficient infrastructure, benefiting over 50+ students at PES Modern College of Engineering.
- Deployed the application using Docker and Kubernetes, which enhanced scalability and resource management.
- Collaborated with educators to optimize the platform's usability for both students and faculty, contributing to a better learning experience.

Diagnostic Center Resource Management System | *Vue.js, Electron.js, Firebase, GCP*

- Developed a system to manage patient referrals and resources, improving productivity by **80%** at Unique Diagnostic Center.
- Built the front-end using Vue.js and Electron, ensuring a seamless PWA experience for desktop users.
- Integrated Firebase for real-time data synchronization and storage, improving data consistency across devices.
- Worked closely with medical staff to ensure the system met critical operational needs, resulting in enhanced workflow efficiency.

Hospital Management System | *Django, AWS, REST, PostgreSQL*
- Engineered a resource-tracking system for an NGO to monitor critical hospital resources during COVID-19, including beds, vaccines, and ventilators.
- Utilized Django for backend services and hosted the application on AWS EC2, ensuring robust scalability.
- Designed a RESTful API for integration with external systems and used PostgreSQL for secure data storage.
- Collaborated with healthcare professionals to ensure the system's functionality aligned with emergency response needs.

JSON to TypeScript Converter | *JavaScript, HTML5*
- Developed a JavaScript-based tool to convert nested JSON objects into TypeScript interfaces, streamlining the workflow for TypeScript developers.
- Implemented an algorithm to detect and handle deeply nested structures, ensuring accurate conversion of complex data formats.
- Ensured cross-browser compatibility and efficient performance through vanilla JavaScript, improving the tool's accessibility.
- Collaborated with open-source contributors for feedback and enhancements, increasing the tool's utility in the developer community.

Crypto Tracker | *Flutter, FlutterFlow, Dart, Firebase, Cloud Firestore*
- Developed a cryptocurrency price tracking app using Flutter, with real-time data fetched via the Gecko API and web scraping techniques.
- Stored historical price data in Cloud Firestore, enabling the generation of candlestick charts for in-app analytics.
- Designed an intuitive user interface using FlutterFlow, improving user engagement and ease of use.
- Collaborated with users to refine features such as price alerts and historical trend analysis, enhancing the app's functionality.

Instagram Video Scraper + Automatic YouTube Shorts Uploader | *Selenium, BS4, Flutter, FastAPI, GenAI*
- Developed an automation script to download Instagram videos and automatically upload them to YouTube Shorts using Python.
- Implemented video metadata generation using GenAI, ensuring accurate and relevant tags for SEO optimization.
- Built the front-end in Flutter to monitor and control the scraping and uploading process through a user-friendly interface.
- Automated workflows for social media managers, reducing manual effort and increasing the efficiency of content distribution.

TECHNICAL SKILLS

Languages: C, C++, Java, Python, Dart, Go, JavaScript, Rust, HTML5.
Frameworks: Angular, React, Vue.js, Django, Flask, Express.js, Electron.js, Tauri, Flutter, Ionic, Spring Boot.
Technologies: GraphQL, REST, Firebase, Algolia, Stripe, Cloud Services, Blockchain, FlutterFlow, APIs.
Developer Tools: Git, Docker, Google Cloud Platform, AWS, Firecracker, Kubernetes, QEMU, Redis, Agile, Linux.
Database: MongoDB, PostgreSQL, Oracle, MySQL, MariaDB, Firebase, D-Graph, SQLite.
Mobile App Development: Flutter, Dart, Firebase, APIs, Algolia, ReTool, React Native.

EDUCATION

Masters in Software Engineering   **August 2024 – Current**
Arizona State University

Bachelors in Computer Science   **August 2019 – July 2023**
Savitribai Phule Pune university