

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 supporting over 10+ programming languages, enabling software developers and students to perform heavy computation without local hardware.
- Optimized resource management by deploying an in-house bare-metal server using QEMU and Ngrok, reducing infrastructure costs and increasing system reliability.
- Collaborated with a team to design a highly scalable architecture leveraging containerization technologies like Docker and Kubernetes.
- Improved user experience and streamlined development by implementing CI/CD pipelines and integrating real-time collaboration features.

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

- Designed and implemented a web application to manage resources and patient data, boosting productivity by **80%** for the Unique Diagnostic Center.
- Integrated Firebase for real-time data synchronization and GCP for cloud-based resource scaling, improving performance and availability.
- Built user-friendly frontend using Vue.js, focusing on responsive design and cross-platform compatibility via Electron.js.
- Collaborated in Agile sprints to deliver regular updates and features, ensuring continuous improvement and meeting user requirements.

Hospital Management System | *Django, AWS, REST, PostgreSQL*

- Engineered an emergency resource management system to track real-time availability of hospital beds, vaccines, and ventilators during the COVID-19 pandemic.
- Implemented RESTful APIs using Django, providing efficient data handling and integration with AWS EC2 for scalable cloud hosting.
- Collaborated with healthcare professionals to design intuitive dashboards, making critical information accessible to non-technical users.
- Ensured data integrity and security by incorporating PostgreSQL for robust database management and encryption.

JSON to TypeScript Converter | *JavaScript, HTML5*

- Developed an algorithm from scratch to detect and convert nested JSON objects into corresponding TypeScript interfaces, simplifying the workflow for developers.
- Built the application using Vanilla JavaScript for high compatibility across different browsers without relying on external libraries.
- Enhanced user experience by incorporating real-time validation and error checking, reducing manual effort and preventing conversion errors.
- Collaborated with users to gather feedback and iteratively improve the user interface, delivering a more intuitive tool.

Crypto Tracker | *Flutter, FlutterFlow, Dart, Firebase, Cloud Firestore*

- Developed a real-time cryptocurrency price tracker using Flutter and Dart, scraping live data via Gecko API and web scraping techniques.
- Stored historical price data in Cloud Firestore and displayed candlestick charts for users to visualize trends and patterns.
- Implemented responsive UI using FlutterFlow, ensuring seamless performance across devices and platforms.
- Collaborated with a team to integrate Firebase for user authentication and cloud-based data storage, providing a secure and scalable backend.

Instagram Video Scraper + Auto YouTube Shorts Uploader | *Selenium, BS4, Flutter, FastAPI, GenAI*

- Developed a Python script to automatically scrape Instagram videos while scrolling through reels using Selenium and BeautifulSoup.
- Automated the uploading of videos to YouTube, including generating video tags and metadata using GenAI for improved search visibility.
- Built a cross-platform interface using Flutter, allowing users to configure scraping settings and monitor uploads in real-time.
- Integrated FastAPI to handle backend processes, optimizing task execution and performance.

TECHNICAL SKILLS

Languages: C, C++, Java, Python, Dart, Go, JavaScript, Rust, HTML5.

Frameworks: Angular, ReactJS, Vue.js, Django, Flask, Express.js, Electron.js, Tauri, Flutter, Ionic, Spring Boot.

Technologies: Docker, Kubernetes, REST, JSON, TypeScript, GenAI, Selenium, BS4, FastAPI.

Developer Tools: Git, Docker, Google Cloud Platform, AWS, Firecracker, Kubernetes, QEMU, Redis, Agile, SCRUM, Linux, JIRA, Adobe Photoshop, Adobe Illustrator, Google Earth.

Database: MongoDB, PostgreSQL, Oracle, MySQL, MariaDB, Firebase, D-Graph, SQLite

Office Applications: Microsoft Word, Excel, PowerPoint

Additional Skills: Attention to detail, Organizational skills, Ability to follow instructions, Meeting deadlines, Formatting manuscripts and proposals, Creating and modifying tables, figures, maps, and photographs, Data entry, Archiving field data, Familiarity with academic archaeological literature, Spanish reading comprehension, GIS knowledge

EDUCATION

Masters in Software Engineering

Arizona State University

August 2024 – Current

Bachelors in Computer Science

Savitribai Phule Pune university

August 2019 – July 2023