

Ashutosh Kumbhar

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EDUCATION

Arizona State University

Master of Software Engineering

Tempe, AZ

Aug. 2024 – May 2026

Savitribai Phule University

Bachelor of Engineering in Computer Science

Pune, India

Aug. 2019 – May 2023

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, GraphQL, Docker, Google Cloud Platform, Amazon Web Services, Firecracker, Kubernetes, Redis, Agile, SCRUM, Linux, JIRA.

Database: MongoDB, PostgreSQL, Oracle, MySQL, Firebase, SQLite

Software Design: Object-Oriented Software Design, Distributed Systems, Multi-threaded Programming, System Performance Optimization, Polyglot Programming.

Networking: Networking Protocols, Bridging, Routing, Linux Networking.

Modeling Concepts: Discrete Event Simulation.

Debugging: Complex Software Debugging.

Multi-core and Multi-processor Systems: Multi-core Systems, Multi-processor Systems.

EXPERIENCE

Software Engineer - Western Union

Western Union

May. 2023 – Aug 2024

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, and Microservices-based architecture 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 Intern - Amazon Web Services

LinkCode Technologies

January 2021 – May 2023

Internship

- 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.

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.
- Collaborated with a team to design a highly scalable architecture leveraging containerization technologies like Docker and Kubernetes.

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

- 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.

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.