

UDAYKIRAN KALYANAPU

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EDUCATION:

The George Washington University (CGPA: 3.9/4.0)

Washington, DC

Master of Science, Computer Science

Jan 2024 - Expected December 2025

- Currently working as a **Graduate Teaching Assistant for the Computer System Architecture**.
- Coursework: Advanced Software Paradigms, Design Analysis and Algorithms, Computer System and Architecture, Software Engineering, Computer Vision, Object Oriented and Cloud Computing.

Vel Tech University

Chennai, Tamil Nadu, India

Bachelor of Technology, Computer Science and Engineering (CGPA: 3.5/4.0)

June 2018 - May 2022

- Coursework: Artificial Intelligence, Java Programming, Object-Oriented Programming, UI/UX Designing with Kotlin, Cloud Computing Concepts, Data Structures, Web Development, and Python Programming.

EXPERIENCE:

Capgemini

Chennai, Tamil Nadu, India

Senior Software Engineer (October 2022 – December 2023) + Software Intern (Feb 2022 – April 2022)

- Developed and maintained enterprise-grade web applications using **Spring Boot** for backend services and **React.js** for dynamic frontend components.
- Built and integrated **RESTful APIs with Spring Boot** to support seamless data flow between **microservices**.
- Designed and executed Regression testing and end-to-end testing strategies using Selenium - **Java, Cucumber, and TestNG, with extent reports and Jenkins** Implementation of achieving 85%+ test automation coverage.
- Executed 120+ **API test cases using Postman and Rest Assured**, reducing **regression testing** time by 40% and improving release reliability.
- Implemented a hybrid automation framework combining **Karate DSL and BDD with Cucumber**, enabling **parallel execution** and cutting test execution time by 30%.
- Logged and resolved over 300 **Jira** tickets, collaborating closely with cross-functional teams to ensure timely and collaborating closely with development and QA teams for high-quality deliveries.
- Recognized with the **New Generation Talent Hackathon Winner Award (2023)** for innovative contributions in automation and full-stack integration of project **Flight Ticket Booking System**.

PROJECTS:

MelodyHub – MERN Stack Music App | MongoDB, Express, React.js, Node.js, Tailwind CSS, Cloudinary

- Developed a dynamic and responsive user interface using **React.js and Tailwind CSS**, supporting music uploads, streaming, playlists, and admin-user role management.
- Utilized **Zustand** for efficient global state management, improving application performance and code maintainability.
- **Integrated Cloudinary API** to efficiently **upload, optimize, and stream** audio files across devices, ensuring high availability and seamless media delivery.
- **Built RESTful APIs using Express.js and Node.js** to handle routing, user authentication, and data interactions with MongoDB, ensuring a scalable and maintainable backend.
- **Applied Object-Oriented Programming (OOP) principles** across backend modules to promote encapsulation, modularity, and code reusability in API design.

CERTIFICATIONS:

- Certified in Google Associate Cloud Engineer.
- Certified in IBM Python for Data Science.
- Certified in AWS Cloud Foundations.
- Certified in Automation Engineering with Selenium - Practitioner level.
- Certified in UI Path RPA Developer Advanced – Level 3.
- Certified in Agile Software Development methodologies.
- Certified in Salesforce AI Specialist - Agentforce.

SKILLS:

- **Frontend:** React.js, Zustand, Tailwind CSS, HTML, CSS, JavaScript.
- **Backend:** Java, Spring Boot, Node.js, Express.js, RESTful APIs, MongoDB, PostgreSQL, JSON, Postman.
- **Testing:** Selenium WebDriver, TestNG, Karate DSL, Cucumber, Postman, RestAssured, Manual Testing, Junit, Tosca, Jenkins, Jira, Selenium IDE.
- **Cloud/DevOps:** AWS (EC2, S3), GCP, Docker, Kubernetes, Firebase, Cloudinary.
- **Other Technologies:** Linux, Podman, OCI-compliant Containers, Shell Scripting, Git, Agile Methodologies, UI Path RPA, Microsoft Office Suite, Google Workspace.