

# Akhilesh Malish

+1 (703) 740 6308 | malishakhilesh@gmail.com | github.com/akhilesh-m01 | linkedin.com/in/akhilesh-m01/

## EDUCATION

**George Mason University**, *Master's in Computer Science* | Virginia, USA GPA: **3.5 / 4.0** May 2024  
**GITAM University**, *Bachelor's in Computer Science* | Hyderabad, India GPA: **8.4/ 10** June 2021

Courses: Component-based Software Development | Cloud Computing | Machine Learning | Database Management System | Data Structures and Algorithms | Open Source Software Development | Web Technologies | Artificial Intelligence | Probability and Statistics

## EXPERIENCE

**Tata Consultancy Services**, *Associate System Engineer* | (Hyderabad, India) July 2021 - Sept 2022

- Automated tasks with Bash scripts, increasing productivity by 30% and maintaining system stability.
- Secured Linux systems through patching and best practices, reducing vulnerabilities by 40%
- Optimized on-premise Linux deployment pipeline, enhancing integration and reducing deployment time by 25%.

**Phoenix Global**, *FullStack Developer Intern* | Remote (Hyderabad, India) April 2020 - May 2020

- Developed a dynamic course registration website with secure payment integration using MERN stack, increasing registrations by 50%.
- Implemented email verification and notifications using NodeMailer, reducing manual follow-ups by 75%.
- Created a user-friendly professor appointment booking interface with React.js, boosting bookings by 30%.
- Engineered secure payment processing and data management, achieving 100% PCI compliance
- Optimized UI/UX with React.js and backend API/database management using Node.js, Express.js, and MongoDB, improving user engagement by 40%.

## SKILLS

- **Languages:** Python, C, C++, JavaScript, Java, Bash, HTML, CSS
- **Tools:** ReactJS, NodeJS, ExpressJS, Kafka, MongoDB, MySQL, Postgresql, Numpy, Pandas, Matplotlib, Seaborn, REST APIs, Linux, Spunk, AWS, Docker, Kubernetes, Jenkins
- **Technologies:** Cloud Computing, Object Oriented Programming, CI/CD

## PROJECTS

**Blog App** | MongoDB, ReactJS, NodeJS, ExpressJS

- Engineered a full-stack blogging platform utilizing the MERN stack, ensuring robust CRUD operations and secure user authentication.
- Orchestrated the design and integration of RESTful APIs, facilitating seamless frontend-backend communication within the application.

**URL Shortner** | MongoDB, NodeJS

- Conceptualized and executed a custom URL shortener service, utilizing Node.js for server-side operations and MongoDB for database management.
- Enhanced user experience by designing a straightforward interface for creating and managing short URLs.

**Livestreaming RTMP Application** | NodeJS

- Developed a basic video streaming application with Node.js, leveraging FFmpeg for media processing and streaming capabilities.
- Implemented core streaming functionality to enable real-time video delivery over the web.

**Video Chat App using WebRTC** | ReactJS, NodeJS, ExpressJS, WebRTC, Socket.io, MongoDB, FFmpeg

- Developed a video chat app using ReactJS for the front-end and NodeJS with ExpressJS for the backend server logic
- Implemented real-time communication using Socket.io and WebRTC, managing state updates and user interactions
- Utilized MongoDB for data persistence and FFmpeg for media processing and streaming