

# Alekhya Vishnu

## Software Engineer

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### SUMMARY

**Software Engineer with 4+ years of experience** of expertise in **MERN stack development**, **MuleSoft** integration, and cloud solutions (AWS). Proven track record in building **scalable web applications**, **enhancing** system performance by up to **25%**, and **implementing** secure **API integrations** to drive business **growth**. Adept at optimizing **database** management (**SQL**, **NoSQL**), **leading Agile projects**, and **collaborating** with cross-functional teams to deliver **high-impact software solutions**. Skilled in **AWS** cloud infrastructure, **API** development, and **DevOps practices**, with a passion for solving **complex technical challenges** and improving **user** experiences.

### EXPERIENCE

#### Software Engineer

DXC Technology, USA

Nov 2023 – Present

- **Spearheaded** the development of a scalable **e-commerce** platform using **Node.js**, **React.js**, and **MongoDB**, resulting in a **25%** increase in user retention and a **15%** boost in sales.
- Set up **logging** and monitoring in **API Gateway** to track request flows and identify bottlenecks in the system.
- Managed **real-time data** updates and synchronization between the **Seesaw** platform and other internal systems.
- **Designed** and implemented a **RESTful API** with **Node.js**, enabling seamless integration with third-party services and enhancing overall system **interoperability**.
- Utilized tools like **Swagger** for API documentation, ensuring clear and detailed API specifications.
- Leveraged **Seesaw API** for automating data collection and analysis, enhancing user experience.
- Collaborated with **UX/UI** teams to refine frontend interfaces and backend processes, improving the user experience and reducing page load times by **35%**.
- Integrated **third-party APIs** and external services into **Java applications** using **REST** and **SOAP** protocols.
- Implemented **CI/CD** pipelines using **Jenkins** and **GitHub** Actions, accelerating deployment cycles by **40%** and minimizing production issues.
- Implemented **secure API authentication** and authorization **mechanisms** such as **OAuth 2.0** and **JWT**.
- Integrated **AWS RDS** with **MySQL** for managing **transactional** data, optimizing **query** performance by **20%** and ensuring data consistency across the **platform**.

#### Web Developer

University of Texas at Arlington, USA

Sep 2022 - Aug 2023

- Developed and maintained a **customer** management system using **Express.js** and **React.js** as part of a **university research project**, enhancing customer **satisfaction** and user experience.
- Researched data **migration strategies** to **AWS RDS** (PostgreSQL), achieving **minimal downtime** and a **25%** improvement in data **retrieval** speeds and **static asset** delivery methods using **AWS S3**.
- Studied and implemented **OAuth2.0** for secure authentication, resulting in a **60%** reduction in unauthorized access incidents.

#### Software Engineer

Infosys, INDIA

July 2018 - Dec 2021

- **Led** the integration of **MuleSoft** for efficient **API** management and system **interoperability**, reducing data integration times by **40%** and improving overall **application** connectivity.
- **Designed** and implemented frontend solutions using **React.js** and **Redux**, enhancing user experience, reducing page load times by **25%**, and ensuring a consistent user interface.
- **Optimized** SQL database interactions for **better** performance, reducing **query** response **times** by **20%** and ensuring **data integrity** across the system.
- **Deployed** and managed **frontend** applications on AWS using services like **S3** and **CloudFront**, improving application performance and **scalability**.
- Created and maintained a **robust** logging and **monitoring** system using **AWS CloudWatch**, improving system **reliability** and reducing **troubleshooting** times by **50%**.
- **Collaborated** with **cross-functional** teams to migrate **legacy** systems to modern technologies, **reducing technical debt** and improving system **maintainability** by **30%**.
- Played a **key** role in **Agile** development processes, including **sprint** planning and daily stand-ups, ensuring **timely** and efficient **project** delivery.

### SKILLS

**Methodologies:** SDLC, Agile, Waterfall, Node.js, Typescript.

**Programming Languages:** Python, Golang, Java, JavaScript, jQuery, Angular, PHP, ASP, Python, Node, Vue.

**Web Development:** HTML, Django, Flask, Fast API, RESTful APIs, GRPC, SQLAlchemy.

**Database:** MongoDB, Oracle, PostgreSQL, Relational Databases, Non-Relational Databases.

**Caching:** Redis.

**Testing:** Jest, Mocha.

**Development Tools:** Linux, Git, Docker, Kubernetes.

**Machine learning:** Natural Language Processing (NLP), OpenCV, Snowflake, Scikit-Learn, TensorFlow, CUDA, Apache Spark.

**Cloud Computing:** AWS, Azure.

**Search and Analytics:** Elasticsearch.

**Big Data Processing:** Apache Spark.

**Soft Skills:** Problem-solving, Communication and collaboration, Adaptability, and learning agility.

### EDUCATION

University of Texas at Arlington

Master of Science in Computer Science

Arlington, Texas

Jan 2022 – Aug 2023

Sri Indu College of Engineering

Bachelor of Technology in Computer Science

Hyderabad, India

Aug 2014 – May 2018

### CERTIFICATIONS

- Certified MuleSoft Developer Level-1 (MCD)
- Certified Information Systems Security Professional (CISSP)
- Certified Microsoft Azure SQL Developer
- AWS Certified Cloud Practitioner