

Achyuth Kumar Silasagaram

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Education

Eastern Illinois University

Master of Science in Computer Technology

Charleston, IL

Aug 2022 – May 2024

- **Coursework:** Multimedia and Web Technology, Advanced Database Technology, Data Structure and Algorithm Analysis, Principles of Operating System, Programing in Data Science

Jawaharlal Nehru Technological University

Bachelor of Technology in Computer Science

Hyderabad, India

Aug 2017 – Jul 2021

Technologies

Languages: C, Python, JavaScript, HTML, CSS, Java, SQL

Frameworks: React, Node.js, Spring Boot, Express.js, Django, Flask

Database: MySQL, MariaDB, MongoDB, MS SQL Server

Developer Tools: Linux, Git, GitLab, JIRA, Visual Studio, IntelliJ, OpenShift

Experience

Software Engineer

Humana

Jun 2024 – Present

San Diego, United States

- Engineered feature-rich front-end solutions using **JavaScript (ES6+)**, **React**, and **Node.js**, improving user interaction and engagement by **30%** and ensuring compatibility across **95%** of devices and browsers.
- Built scalable back-end services with **Java Spring Boot**, supporting over 100,000 active users with optimized architectures that improved performance by **40%**.
- Developed and maintained RESTful APIs using **Node.js** and **Express.js**, enabling seamless communication between front-end and back-end systems, handling over 500,000 requests per month.
- Integrated **MongoDB** databases with back-end services, performing **CRUD** operations to support scalable data management solutions, ensuring **99.9%** uptime and reducing query response times by **25%**.

Software Engineer

Intense Technologies

Mar 2021 – Aug 2022

Hyderabad, India

- Built dynamic web applications with **React.js**, ensuring smooth user experiences across devices and browsers.
- Improved web performance using **React hooks** like **useMemo** and **useCallback**, reducing render times by **15%**.
- Optimized database queries for SQL and NoSQL data stores, improving data retrieval speeds by **20%** and reducing application downtime.
- Deployed and managed containerized applications using **Docker**, achieving **30%** faster deployment cycles across development, testing, and production environments.
- Collaborated on codebases using **Git** for effective version control and maintain project integrity.

Projects

EquiMatch | Java, React, MariaDB, Spring, Maven, HTML, CSS

- Designed **UI** components, streamlining authentication, stock transactions, visualization, reducing the loading time by **30%**
- Integrated a **Spring Boot** backend for EquiMatch with over **15 controllers** and **25 services**, integrating a sophisticated order matching algorithm to efficiently connect buyers and sellers for stock transactions
- Structured **MySQL** schema with **stored procedures** for automated stock transactions, enhancing data retrieval by **40%**

Preliminary Analysis Of Machine Failure | Python, NumPy, Keras, TensorFlow, Matplotlib

- Developed an application for early detection of machine failure conditions using historical data analysis.
- Implemented an **LSTM** model to predict machine performance with **85%** accuracy, improving forecast precision by **20%**.
- Applied **logistic regression** to classify predicted values, identifying potential machine failures.