

# Rakshith Reddy Kokonda

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## EDUCATION

### Northeastern University - Khoury College of Computer Sciences

*Master of Science in Computer Science CGPA : 4/4*

Boston, MA

*Sept. 2023 – Present*

### Vasavi College of Engineering

*Bachelor of Engineering in Computer Science and Engineering CGPA : 8.32/10*

Hyderabad, India

*Aug. 2017 – Jul 2021*

## EXPERIENCE

### Software Engineer II

*ZeMoSo Technologies Pvt. Ltd*

Mar. 2021 – Aug. 2023

*Hyderabad, India*

- Developed and maintained a scalable backend system using **NestJS** and **DynamoDB**, building RESTful APIs to securely manage UI component configurations for a builder app.
- Improved performance in a microservice architecture by **15%** by adopting a **BFF** framework with **GraphQL**.
- Enhanced the payment dispute system to support the payment streaming pipeline at eBay.
- Collaborated with product managers and cross-functional teams to design, develop, and deploy patient profiles and healthcare dashboards using **React.js** and **AWS**.
- Automated regression and unit tests using **JUnit** and **Selenium**, integrating them into CI/CD pipelines with **Jenkins**, enhancing test coverage by **30%** and significantly accelerating deployment cycles.
- Created a custom database migration software to version control incremental changes to **DynamoDB**.

### Machine Learning (ML) Intern

*SmartBridge*

Apr. 2019 - Jul. 2019

*Hyderabad, India*

- Learned and implemented machine learning algorithms like **Decision Tree**, **KNN**, and **XGBoost**.
- Worked on handwriting recognition using fully connected Convolutional Neural Networks (**CNN**), to recognize various handwritten characters and digits from images. Used ReLU activation for feature extraction.
- Trained and tested the model with a large NIST handwritten image dataset, achieving an accuracy of **95%**.

## PROJECTS

### Image Processing Application | *SpringMVC, Java, Swing*

Oct. 2023

- Developed a graphical user interface (UI) enabling users to manipulate images.
- Designed using Model-View-Controller (MVC) architectural pattern and the Command design pattern.
- This application is well-documented and adheres to SOLID principles, ensuring scalability.
- Supports four image formats (ASCII PPM, JPG, JPEG, and PNG) and offers over 15 image manipulations.

### Shopping App | *MERN stack, MongoDB, Express, React, Node.js*

Oct. 2023

- Crafted an intuitively navigable e-commerce web application featuring a well-designed user interface (UI).
- Devised two distinct versions tailored for guest and registered users.
- The frontend is developed using React.js, complemented by a robust backend service with more than 20 APIs built with Express and MongoDB.

### Chess Bellator | *Python, Machine Learning Algorithms, PyTorch, TensorFlow*

Mar. 2024

- Built and analyzed chess engines using Alpha-Beta Pruning and Monte Carlo Tree Search (MCTS) algorithms.
- Integrated Convolutional Neural Networks (CNNs) for position evaluation.
- Implemented complex neural network architectures and optimization techniques, utilizing Python and libraries such as TensorFlow and PyTorch to model intricate patterns and improve evaluation accuracy to 90%.

## TECHNICAL SKILLS

**Languages:** Java, C, C++, Python, JavaScript, TypeScript, HTML/CSS, SQL (MySQL), NoSQL (DynamoDB).

**Frameworks:** SpringBoot, React, Angular, Node.js, Express, Nest.js, MarkoJS, Selenium, JUnit, GraphQL, Material-UI

**Developer Tools:** Amazon Web Services (AWS), Git, Docker, Jenkins, Jira, VS Code, Visual Studio, IntelliJ, Eclipse