

RIA BANERJEE

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Experienced Full Stack Developer adept in building robust web applications using **Python** and **Java Frameworks**. Proficient in **REST, SQL databases**, DevOps tools like **Docker and Kubernetes**, cloud services like **Google Cloud Platform** and **Amazon Web Services**. Strong concepts of Systems Development Life Cycle (SDLC), Object Oriented Programming (OOP) and Agile.

EDUCATION

University of North Carolina Charlotte Masters in Computer Science	Aug 2022 - May 2024 Charlotte, NC
Nirma University <i>Masters of Computer Applications</i>	Aug 2019 - May 2021 India
Ahmedabad University <i>Bachelors of Computer Applications</i>	Aug 2016 - May 2019 India

SKILLS

Technical/ Programming Skills: Python, Java, C# .NET, C, C++, Shell/ Bash, Linux/Unix

Web Technologies: Django, Flask, SpringBoot, React, Node, HTML, CSS

Database: MySQL, PostgreSQL, MongoDB

DevOps/ Tools : Kubernetes, Docker, GCP, AWS, Kafka, Grafana, REST API, Git, Redis, JIRA, Nginx

Machine Learning / AI: Pandas, TensorFlow, Keras, SkLearn, HuggingFace

WORK EXPERIENCE

BabelCast Inc. | Full Stack Python Developer Oct 2023 - Jan 2024 | Chicago, IL

Tech Stack: Python, Flask, REST, GCP, Docker, Kubernetes

- Developed a voice-changer application, creating REST API to integrate AWS S3 and ElectronJS.
- Deployed scalable backend on GKE/GCP, supporting 50K users at once, while monitoring latency on CPU vs GPU.
- Conducted load/stress and unit/integration testing, performed code reviews, for cross-functional integration.

University of North Carolina, Charlotte | Research Assistant (Python) Mar 2023 - Oct 2023 | Charlotte, NC

Tech Stack: Python, TensorFlow, Machine Learning, Data Analysis

- Contributed to Healthcare Research by streaming biomedical data and integrating it with Virtual Reality platforms.
- Achieved 78.5% accuracy with deep learning models, reducing anxiety by 45% through VR integration.

Tata Consultancy Services | Systems Engineer (Java) May 2021 - Aug 2022 | India

Tech Stack: Java, SpringBoot, Maven, GCP, Kubernetes, SQL, Grafana

- Crafted Java-based enterprise microservices for Insurance client, managing up to 6 different applications.
- Managed CI/CD using ServiceNow and Jenkins, achieving 95% successful releases.
- Managed vulnerabilities using Nexus LifeCycle and SonarQube, monitoring using Grafana.

PROJECTS

Web based Face Recognition Attendance System using Siamese Neural Network (Python)

Tech Stack: Python, Flask, AWS, NginX, MySQL, OpenCV

Trained Face Recognition algorithm, achieving an impressive accuracy rate of 90%.

Containerized the app to host Docker images on AWS ECR, connecting Flask + nginx + gunicorn endpoint to access on EC2.

Recommendation System for Movies recommendation (Python)

Tech Stack: Python, Django, GCP, Redis, PostgreSQL, Scikit-learn

Created a movie recommendation system with Django, GCP for deployment, Redis for caching, and PostgreSQL for database management, employing collaborative filtering and content-based filtering for personalized recommendations.

PUBLICATION

'Recommendation Systems Based on Collaborative Filtering Using Autoencoders: Issues and Opportunities' At International Conference on Recent Innovations in Computing. DOI:10.1007/978-981-15-8297-4_32.