

Aarthi Mikkilineni

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EDUCATION

The University of Texas at Dallas || Master of Science, Computer Science August 2024 - Present
Course work: Database Design, Statistical methods for data science, Algorithm analysis and data structures

G. Narayanamma Institute of Technology and Science || Bachelor of Technology, Computer Science July 2022
Course work: Data Structures, Compiler Design, Database Systems, Operating Systems GPA: 9.46 /10.0

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, TypeScript, HTML, CSS
Frameworks: Spring Boot, Django, Flask, ReactJS
Developer Tools: Jenkins, Doppler Splunk, Terraform, IntelliJ, Bitbucket, confluence, Jira, Postman
Testing Frameworks: Cypress, Jest, Junit, PACT, Hoverfly

CERTIFICATIONS

AWS Certified Developer Associate (Validation number: M954ENQ2WMV41154)

WORK EXPERIENCE

JPMorgan Chase & Co. August 2022 – August 2024
Software Engineer I Hyderabad, India

- Collaboratively led the migration of the payin4 and Credit Journey applications from a private cloud to AWS EKS, and subsequently transitioned from EKS to ECS, reducing infrastructure maintenance efforts since ECS is serverless and needs no maintenance.
- Spearheaded Cypress testing initiative, and integrated it into the Jenkins pipeline along with component and contract testing thus significantly reducing the manual effort required for testing and production validation by ~90%.
- Successfully implemented blue-green deployment strategies for EKS applications, resulting in zero customer impact post-deployment.
- Developed a dashboard for monitoring production environment health, displaying API response status codes, error logs, app launch frequency, and related metrics using Doppler Splunk and CloudWatch. This proactively enabled early issue detection, preventing huge customer impact.
- Utilized SplitIO to deploy features to pilot users and dynamically manage the visibility of UI components without any code change, eliminating the need for a production deployment.
- Implemented resilience patterns using Resilience4j for circuit breaker and retry mechanisms, thus enhancing the reliability and stability of the application.

JPMorgan Chase & Co. February 2022 – August 2022
Software Engineering Intern Hyderabad, India

- Developed UI components using React Storybook, enhancing reusability and significantly reducing the effort required to build components from scratch by ~50%.
- Leveraged AWS Secrets Manager for secure storage and retrieval of secrets for API call authorization, and utilized Route 53 for domain mapping of applications deployed on EKS and ECS.

The SmartBridge April 2020 – May 2020
Artificial Intelligence Summer Intern Hyderabad, India

- Visualized and performed randomization on raw data using data preparation techniques including gathering, combining, clearing, and transforming to make accurate ML predictions.
- Applied various Machine Learning algorithms, including SVM, Decision Tree, and Random Forest, to real-world applications. Explored deep learning algorithms with a focus on Natural Language Processing and Image Processing.

ACADEMIC PROJECTS

Viksepa-Tracking User's Attention for Enhancing E-Business August 2021 – May 2022

- Developed a system capable of determining whether users are interested in the advertisements showcased on the e-commerce websites. Utilized OpenCV and Dlib Library to process video input, identify eye coordinates, and calculate user distance from the webcam, in order to form the training data set for the ANN model.
- Viksepa was able to predict the part of the screen the user is looking at with an accuracy of ~75%.

Visual Pattern Analysis for Classification of Visual Behaviour of an Individual January 2021 – August 2021

- Developed an ANN and a CNN model to predict the gaze coordinates of the user in a cost-effective manner, eliminating the need for expensive equipment such as Tobii eye tracker.
- The model successfully predicted gaze coordinates with ~75% accuracy using an ANN model and the SGD optimizer.

Sentiment Classification and Opinion Mining on Airline Reviews April 2020 – May 2020

- Created a Natural Language Processing Model capable of accurately differentiating between positive and negative tweets. Was able to attain an accuracy of ~86%.

AWARDS AND ACHIEVEMENTS

- **JPMorgan Chase & Co.: Guards of the Fort Q2 2023** - Recognized with the "Guards of the Fort" Award for significant contributions towards public cloud migration and enhancing Customer Experience at JPMorgan Chase & Co.
- **JPMorgan Chase & Co.: Techies award Q2 2024** - Recognized with the Techies award in the Consumer and Community Banking LOB for automating the testing and production validation stages, thus reducing the manual effort and time involved in production deployment.