Bharath Kumar Bandaru

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Work Experience

Software Engineer, Fidelity Investments, Bangalore Aug 2019 – Jul 2019

- Managed development and modification of over 10 **Java Spring Boot** applications for equity trading business requirements while addressing production issues.
- Orchestrated the successful migration of **5** Java applications to AWS cloud infrastructure, resulting in enhanced scalability.
- Optimized a Scala automation application by implementing automated limit price changes on orders, resulting in a daily time savings of **1-2 hours** for traders.
- Designed and developed a comprehensive suite of environment-agnostic automation test cases (40+) for REST APIs applications, validating application workflows.
- Enhanced **Java Spring Boot** application's handling of stock orders, increasing traders' efficiency by over **10%,** resulting in improved productivity and streamlined workflows for the trading team.
- Collaborated with cross-functional teams across 3 different countries to enhance the interfund feature of the software application, resulting in a performance improvement by **20%**.

Projects

Face Recognition Application with AWS Integration Aug 2022 – Dec 2022

- Developed a Python application configured with AWS, achieving **95%+** face recognition accuracy, and implementing real-time visibility through AWS CloudWatch monitoring.
- Utilized AWS services like **S3**, **DynamoDB** and AWS **Lambda** for storing and retrieving information and classification results of the input videos.

Interactive Visualization of Future Public Events from Social Media Data Aug 2022 – Dec 2022

- Implemented a D3.js-based visualization system with an interactive dashboard, inspired by Isaac Cho et al.'s research, for in-depth analysis and exploration of future event relationships across different parameters.
- I used the Twitter API library to extract tweets and applied text preprocessing techniques to extract information about various events efficiently.

Multimedia Data Analysis Using Feature Extraction and Classification Aug 2021 – Oct 2021

- Created a Python application that extracts facial features, performs distance-based similarity analysis, and utilizes dimensionality reduction techniques for feature identification.
- Added indexing and classification feature using SVM, DT, and LSH to efficiently organize and analyze the dataset images based on the discovered latent features.

Multi-Game Item Exchange Platform Jan 2019 –Apr 2019

- Engineered a user-friendly environment for players to actively trade in-game items for buying and selling.
- Demonstrated strong full-stack web development skills by creating a user-centric platform using Python, Flask, and MySQL.

Certification

- **AWS Certified Developer – Associate,** Amazon Web Services, June 2023. (Link)

Education

Master of Science, Computer Science May 2023
Arizona State University, Tempe, Arizona 3.97 GPA
Coursework: **Cloud Computing**, Deep Learning, Distributed Database Systems, Data Visualization.

Bachelor of Technology in Computer Science and Engineering May 2019
National Institute of Technology Karnataka, Surathkal, India 7.86 GPA
Coursework: Operating Systems, **Data Structures and Algorithms**, Design and Analysis of Algorithms, Object Oriented Programming, Database Management Systems, Distributed Computing.

Skills

Languages: Java, Python, C/C++, TypeScript, JavaScript, Scala, Go
Version Control Systems: Git, GitHub
Operating Systems: Linux, Windows, OS X
Databases: SQL, PostgreSQL
Tools: Jira, Jenkins, Datadog
Cloud Platform: AWS
Frameworks & Technologies: Html, CSS, NodeJS, Angular, Flask, Spring boot, Android Studio, Apache Spark