

Bharath Kumar Bandaru

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Education

Master of Science, Computer Science

Arizona State University, Tempe, Arizona

May 2023

3.97 GPA

Coursework: **Cloud Computing**, Deep Learning, Distributed Database Systems, Data Visualization.

Bachelor of Technology in Computer Science and Engineering

National Institute of Technology Karnataka, Surathkal, India

May 2019

3.50 GPA

Coursework: Operating Systems, **Data Structures and Algorithms**, Design and Analysis of Algorithms, Object Oriented Programming, Database Management Systems, Distributed Systems, Compiler Design.

Skills

Languages: Java, Python, C/C++, TypeScript, JavaScript, Scala, Golang.

Frameworks & Technologies: HTML, CSS, NodeJS, Angular, React, Flask, Spring boot, Spring.

Databases: SQL, PL/SQL, NoSQL, PostgreSQL.

Testing: Unit Testing, Integration Testing, Selenium, Cucumber.

Tools: Jenkins, Datadog, Hadoop, Apache Spark, Git, GitHub, Bitbucket, Docker, AWS, Splunk, CI/CD, Sonar.

Certification

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

Work Experience

Software Engineer | Fidelity Investments | Bangalore

Aug 2019 – Jul 2021

- 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 thereby enhancing the overall user experience.
- 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

- Developed a Machine learning model and Python application configured with AWS **EC2**, achieving **95%+** face recognition accuracy, and implementing real-time visibility through **AWS CloudWatch** monitoring.
- Utilized AWS services like **S3**, **DynamoDB**, **SQS** and AWS **Lambda** for storing and retrieving information and classification results of the input videos.
- Based on the number of inputs in the SQS queue, AWS EC2 instances boot up, complete the classification task, and shut down automatically in 30 seconds making the application end-to-end elastic.

Interactive Visualization of Future Public Events from Social Media Data

- Developed an interactive web-based visualization system using **D3.js** and **JavaScript** to analyze and explore relationships between future events across various parameters, including location, time, topic, and sentiment.
- Enhanced the user experience of the dashboard by implementing interactive features such as filtering, zooming, brushing, and tooltips to provide a more engaging and informative experience.

Platform for Exchanging In-Game Items

- Developed a full-stack web application using **Python**, **Flask**, **HTML/CSS**, and **MySQL** to enable players to trade in-game items in a user-friendly environment.
- Implemented features such as user authentication, item listing, search, filter, and transaction history to enhance the user experience and functionality of the platform.

Leadership

Graduate Student Assistant | Arizona State University | Tempe, AZ

Aug 2022- May 2023

- Assisted students of **CIS 505 - Intro to Enterprise Analytics**, **CSE 579 Knowledge Representation** with their lectures, assignments, & grading.