Ashwath Bhat Laxminarayana

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Education

Arizona State University   Tempe, Arizona
Master of Science in Information Technology | GPA: 4.0/4.0   *Aug. 2022 – May 2024*

National Institute of Technology Karnataka   Surathkal, India
Bachelor of Technology in Materials Engineering   *Aug. 2016 – May 2020*

Relevant Coursework

- Data Structures
- Operating Systems
- Database Systems
- Big Data Analysis
- Data Visualization
- Cloud Architecture
- Computer Networks
- Algorithms Analysis

Technical Skills

Languages: Java, C/C++, Python, HTML/CSS, JavaScript, MySQL
Technologies/Frameworks: Spring Boot, React, AWS {ECS, Lambdas, EC2, S3}, Django, JUnit
Developer Tools/Libraries: Jenkins, Docker, Bitbucket, JIRA, Git, Kibana, Postman, scikit-learn, pandas

Experience

Arizona State University   Tempe, AZ
Graduate Research Assistant | TOMNET Lab at SSEBE, ASU   *Aug. 2023 - Present*

- Engineered a comprehensive data dashboard analyzing the American time-use, travel, and telework behavior, leveraging asynchronous programming and concurrency, achieving a **52% reduction** in load time. Project endorsed by the **U.S. Department of Transportation**. *Website(On-going)* ⌂
- Spearheaded the development of an activity-based wellbeing tracking platform using React framework, focusing on intricate data processing to visualize actionable insights. *Website* ⌂

Citi India, Citigroup   Pune, India
Software Engineer II | Treasury Trade Solutions Division   *Oct. 2021 - Jul. 2022*

- Drove the development of a scalable **distributed transaction handling middleware**, significantly enhancing system efficiency and reliability for global financial transactions via the CEE/MENA regions.
- Streamlined the optimization and validation process of payment request messages from partner queues using IBM MQ, cutting processing time by **15%** and enhancing accuracy.
- Developed **REST APIs** for real-time transaction alerts, leveraging Kafka for enhanced data streaming and efficient alert mechanisms, ensuring robust unit and integration testing for optimal functionality and reliability.
- Honored with the **Citi Gratitude Gold Award** in recognition of outstanding contributions to project success by senior management.

Software Engineer I | Cross Product Technology Division   *Aug. 2020 - Sept. 2021*

- Transformed an existing monolithic system into **low-latency scalable microservices** using Java, Spring Boot, Aspose library, and AWS S3 to generate PDF from HTML/Word/PPT data and achieving a **40% reduction** in the generation time.
- Configured a **CI/CD pipeline** with automated deployments and an alert monitoring system. Enhanced security by fixing critical bugs and introducing encrypted scheme custom properties onto 400+ PDF documents published per day.
- Implemented comprehensive **end-to-end unit tests** using JUnit and Mockito, significantly increasing **test coverage to 76%**. Provided release support, ensuring the stability & reliability of the platform during and after the release process.
- Onboarded and mentored **2 interns** and **a new graduate**, accelerating their proficiency in our development and product ecosystem.

Tata Hitachi   Dharwad, India
Software Engineer Intern | Supply Chain Department   *Jun. 2019 - Jul. 2019*

- Conducted data analysis on excavator bucket components and production times to inform decision-making processes. Additionally, designed a stock management dashboard using React for inventory tracking and work metrics.

Projects

Elevation-based Navigation Tool | *Flask, ReactJS*   **Spring 2023**

- Built a software system that determines, given a start and an end location, a route that maximizes or minimizes elevation gain while limiting the total distance within a specified distance threshold of the shortest path.

Movie Search Engine | *Python, MapReduce, sklearn*   **Fall 2022**

- Launched a plot-based movie search engine using Python and MapReduce on Databricks, employing sklearn for tf-idf and cosine similarity algorithms, enhancing user experience with accurate multi-term search capabilities.

Order Marching System | *Java, Spring Boot, Typescript, Angular*   **Summer 2021**

- Developed a high-performance order matching system with Java and Spring Boot, integrating Angular for user interface and Zuul for secure microservice routing, achieving real-time order processing with in-memory queue management.