Mohith Kamanuru

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Education

Virginia Tech　　　　　　　　　　　　　　　　　　　　　　　Blacksburg, VA
Master of Engineering in Computer Science　　　　　　　　　　　　*Aug 2022 - Present*

Birla Institute of Technology and Science, Pilani　　　　　　　　Hyderabad, India
Bachelor of Engineering in Electronics and Communications Engineering　*Aug 2015 – May 2019*

Experience

Flipkart　　　　　　　　　　　　　　　　　　　　　　　　Bangalore, India
Software Development Engineer　　　　　　　　　　　　　　　*April 2021 – July 2022*

- **Retail Platform** | *Java, Python, Ruby, MySQL, Kubernates, Kafka, Dockers, Elastic Search*
  - Supported scaling-up the platform to handle large volumes of orders during India's biggest online sale, The Big Billion Days
    - Migrated all services to the K8 environment to help with scalability and improve the performance of 100+ APIs
    - Scaled up the platform to on-board 40+ sellers and performed load testing to support the Big Billion Days
    - To monitor load during the sale, created dashboards and add new metrics for the services
    - Made automated alerting systems more robust by adding new fitting alerts to handle any breach or performance lag
    - Post enrichment and tuning, the system handled as high as 450 queries/sec, which was 10 times higher than previous rate with negligible performance lag
  - Designed and built a new model called *Beats* to aggregate orders for vendors that improved the callback by 100%
  - Built APIs to support creation of return orders on Vendor-Hub, by fetching and facilitating data from core services
  - To optimize purchase order workflows, built automated scripts to process, manipulate, and migrate order data

Nucleus software　　　　　　　　　　　　　　　　　　　　　Noida, India
Senior Software Development Engineer　　　　　　　　　　　　　*July 2019 – April 2021*

- **Loan Management System** | *Java, JavaScript, OracleSQL, JSP, Tomcat, Jenkins*
  - Added a vital feature to fetch all the linked loans to support third party apps for over 50 banks
  - Incorporated a depreciation summary page to help customers stay up-to-date
  - Integrated a feature to support grouping of loans and included functionalities like searching, updating group details etc..
  - Redesigned verification page to incorporate a crucial functionality of re-verification to better assist customers
  - Updated a functionality of an existing page for capturing multiple communication details from customers
  - Added a new feature to support marking dates for loans and linked various pages to have this new feature

- **Change Impact Analysis (CIA)** | *Java, JPA, Antlr, AST, IntelliJ*
  - Built an IntelliJ Plugin with various features such as Retrieving Tables Impacts, Initiation Points, Entity usages
  - Released CIA plugin after extensive testing, and it is now actively being used by all the developers in Nucleus Software

Software Development Engineer Intern　　　　　　　　　　　　　*June 2018 – Dec 2018*

- **Echidna** | *Java, JPA, Antlr, AST, Eclipse*
  - Built a command line tool to detect and correct the issues in code, thereby increasing the performance and quality of code
  - Running the tool on Nucleus Software code base took less than 15 mins, and saved roughly 75 Man-Days work
  - In addition to command line support, built an Eclipse plugin for efficient use of Echidna

- **PoC of Git** | *GitLab, Git, SVN, Jenkins, Sonar*
  - Migrated a project and performed various experiments to capture performance of Git compared to SVN
  - Based on PoC, migrated entire code base from SVN to Git

Technical Skills

- **Languages and Libraries:** Java, Python, Ruby, C, MATLAB, Kubernates, Dockers, Kafka, SQL, JavaScript, HTML, CSS
- **Miscellaneous:** Spring, Hibernate, Lens, Git, SVN, Elastic Search, Jenkins, Sonar, Tomcat, Gradle, Maven

Awards & Achievements

- Received **IKA Award**, an award given by Flipkart team for demonstrating splendid work and collaboration　*Oct 2021*
- Received **Nucleus Software Spot Award**, an award given to outstanding performer in the organization　*Apr 2020*