

Aditi Raj Kandoi

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EDUCATION

Stony Brook University

Master of Science in Computer Science | GPA: 3.63

Relevant Courses: Operating Systems, Big Data Analytics, Data Science Fundamentals, Natural Language Processing

Stony Brook, New York

Dec. 2022

Sardar Patel Institute of Technology

Bachelor's of Technology in Computer Engineering | GPA: 8.9

Relevant Courses: Algorithm Analysis, Networks, Distributed Systems, Object-Oriented Programming, Software Engineering

Mumbai, India

Jun. 2021

SKILLS

- **Languages:** Python, Java, Golang, C/C++, C#, Linux Kernel C, R, HTML/CSS, JavaScript (Node.js), Shell Scripting
- **Query languages:** SQL, GraphQL, MQL
- **Frameworks:** Apache Spark, Hadoop, Spring, Selenium, Django, Angular, Tensorflow, React, Android
- **Tools:** AWS, Docker, Kubernetes, Postman, REST APIs, Microsoft Office Suite, JIRA, Git, Agile (Scrum)

WORK EXPERIENCE

Sigscalr

Software Engineer

- Enhanced observability with a highly efficient metrics storage and retrieval system. Utilized a custom tag tree structure in Go to handle over 1 million unique series and billions of data points, enabling rapid ingestion, queries, and in-depth metric analysis
- Implemented concurrent thread workflows using Goroutines in Hyperion's codebase, a log and event management tool, optimizing for parallel execution and improving efficiency by 20%

Jersey City, New Jersey

Jan. 2023 - Mar. 2023

Meta Platforms, Inc. (formerly Facebook)

Software Engineer Intern

- Built a framework to automate flagging and deletion of applications' performance tests using Python and Buck by introducing a new metric (test quality score), achieving a 25% decrease in capacity wastage
- Created a job to calculate and monitor the metric on regular intervals and log the results to the Scuba database using Chronos (Cron-like internal tool) and Python Logger Config
- Leveraged GraphQL to efficiently retrieve performance results' data, facilitating informed decision-making regarding actions on the performance tests

Seattle, Washington

May 2023 - Aug. 2023

BNP Paribas

Software Developer

- Migrated the "User Deposits Report" creation workflow from FoxPro to Java, facilitating the retirement of outdated legacy workflows
- Engineered Java scripts to optimize report categorization by incorporating client, branch information, and deposit types

Mumbai, India

Jan. 2021 - Jun. 2021

PROJECTS

Linux 5 Kernel

- Developed a stackable file system stbfs introducing support for a secure "trash-bin" folder in Linux. Upon calling rm on a file, it is encrypted and moved to the trash-bin before scheduled purging. Files can be restored to the original directory
- Implemented a FFS in-kernel queueing system that performs various operations such as delete, rename, encrypt, compress, hash, etc on files asynchronously. Operations are supported using ioctl

Nov. 2022 - May 2022

Impact and Relevance of Covid-19 research publications

- Streamlined data processing pipeline by merging 380K JSON files into 381 larger files, reducing data size by 38% and improving processing speed 5x using PySpark
- Implemented topic modeling to cluster research papers, enabling quick navigation with semantically similar tags like 'antibodies', 'vaccines', etc.
- Employed similarity search techniques, leveraging cosine similarity scores to retrieve top 10 related research papers, empowering researchers with comprehensive insights on user queries

Jan. 2022 - Apr. 2022

ACHIEVEMENTS

- Awarded "Best Paper" for "Pothole Detection using Accelerometer and Computer Vision with Automated Complaint Redressal" at 3rd ICSPC Conference, May 2021
- Finalist at DevHack 2020, IIT Dharwad, for implementing a Machine Learning system to minimize food waste
- Bagged 5th Position at Hack by the Beach, BITS Goa, for building an efficient waste detection and disposal system