

Jayanth Rao

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Objective

Driven and self-motivated Computer Science BS graduate with 4 years of extensive experience in data science, back-end development, Cloud Architecture and Computing, and machine learning. Seeking a role as a **Software Engineer**.

Education

Arizona State University – Bachelor of Science in Computer Science – Minor in Mathematics

August 2018 – December 2021 3.77 GPA

Ira A. Fulton Schools of Engineering, Arizona State University, Tempe, AZ

Honors Student in Barrett, The Honors College – Recognized in Dean's List for all semesters

Relevant Coursework:

- Data Structures & Algorithms, Discrete Math, Linear Algebra, Information Assurance, Statistical Machine Learning, Artificial Intelligence, Advanced Computer Security, Introduction to Human-Computer Interaction

Relevant Certifications:

- Working towards Solutions Architect Certification in AWS and Associate Cloud Engineer Certification in GCP

Experience

Big Data Intern – Rakuten, Inc.

May 2020 – August 2020 | May 2021 – August 2021 San Mateo, CA (Remote)

– Summer 2021:

- Worked with Google Cloud Functions executed by Pub/Sub topics and HTTP triggers to manipulate and develop audit-logging and long-term archiving for BigQuery tables and GCS; utilized Redis to ensure non-duplicate messaging

– Summer 2020:

- Migrated Rakuten Catalogue Platform technology stack from RabbitMQ to Apache Kafka for simplified ingestion of Japanese vendor data; reduced overall pipeline ingestion time by 40%; utilized Apache Spark for cluster creation, Kafka for message handling, Cassandra for data storage, and Redis for cache validation

Engineering Intern – ZivoE, LLC.

January 2021 – May 2021 Scottsdale, AZ (Remote)

- Developed a base API for interacting with Uniswap V3 de-fi cryptocurrency exchange in Python
 - Utilized Web3.py to create the interface and performed testing against an Ethereum wallet to make purchases against Uniswap V3
- Implemented the groundwork for the consumer lending platform that ZivoE required to support customers

Information Security Intern – Starbucks Corporation

January 2020 – May 2020 Scottsdale, AZ

- Augmented the existing internal and external automation processes for managing and monitoring corporate data security
- Development was completely in Python and JavaScript; worked primarily with the APIs of corporate-grade security applications, specifically those that monitor the security of deployed servers in Azure

Software Development Intern – FireEye, Inc.

May 2019 – October 2019 Milpitas, CA

- Created a tool deployed via AWS to fetch and run analytics on FireEye's Cloud-based SIEM product data to generate appliance usage metrics from customers; analytics were used to identify measures to reduce upkeep costs
- Developed a machine learning model to analyze and categorize FireEye appliances based on their traffic profile and utilization; aided in improving customer retention based on how current appliances were functioning

Research

Co-Author – Agora: Introducing the Internet's Opinion to Traditional Stock Analysis and Prediction

November 2020 – December 2021 Tempe, AZ

- Implemented a Sentiment Analysis model in Python to determine the polarity for a given stock based on Yahoo! Finance Conversations; utilized this polarity and trained a machine learning model against analyst ratings to provide predictions on whether a user should buy, sell, or hold the stock
- Currently published as a journal paper at the IEEE ICSC-2022 Conference

Projects

Co-Founder – Artemis Design Studios, LLC.

May 2020 – Present San Jose, CA

- Created, designed, and developed the Paragon mechanical keyboard case with over 4200 prospective customers; the case features a unique gasket-based mounting system and rotary encoder

Skills

- **Libraries and Frameworks:** Pandas, NumPy, scikit-learn, Flask, boto3, React, Mockito, JUnit,
- **Cloud Technologies:** AWS, GCP, Azure
- **Big Data Technologies:** Apache Spark, Kafka, Cassandra, ScyllaDB, Redis
- **Programming Languages:** Java, Python, C, C++, JavaScript, R, Go