

SURYAA CHARAN

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EDUCATION

Masters in Computer Science University of California, Riverside	March 2024 GPA: 3.94
Bachelors in Computer Science & Engineering SRM Institute of Science and Technology	May 2019 CGPA: 9.45

EXPERIENCE

Research Intern, Monet Analytics June 2023 - September 2023

- Led a team of 3 undergraduate students in improving the accuracy of the EEMO Platform, which harmonizes conscious and subconscious emotional reactions to help understand content resonance for brands, agencies, and individuals. Developed a versatile hypothesis testing tool to identify significant ads in a campaign.

Senior Software Engineer, Temenos July 2021 - August 2022

- Conceptualized and implemented an event-driven microservice based on the SAGA pattern, improving system reliability and stability with minimal latency (about 2 ms)
- Integrated RESTful APIs to enable customers to view external bank accounts within the retail banking application, conveniently increasing engagement for 100+ banks and Temenos partners.
- Delivered automation scripts for microservices deployment in AWS and Azure to reduce scripting efforts by 20 person-hours.
- Refactored and optimized JUnit & component test cases to increase product quality and efficiency.
- Authored 50+ technical and client-facing documents, maximizing the confidence rate of the readers.
- Pioneered SCRUM/Agile methodologies, fostering collaborative workflows and optimizing project outcomes.

Software Engineer, Temenos July 2019 - July 2021

- Designed & co-developed an event-driven request management system to efficiently capture over tens of thousands of service requests daily from digital banking channels via REST APIs
- Supervised and mentored the on-boarding program for new hires, allowing them to get up to speed 8 weeks faster than previous cohorts.
- Developed an automation process to orchestrate building & deployment of retail banking artifacts, conserving 40 person-hours/week and optimizing QA effectiveness.
- Provided expertise as a L1 Developer POC for the Product Analysis and Support team at Temenos, helping banks effectively triage, solve, classify, and allocate issues related to Temenos Microservices.

SKILLS

Languages	Java, Python, R, C++, Scala
Database	MySQL, MSSQL, PostgreSQL, MongoDB, DynamoDB
Frameworks	Spring, JPA, Hibernate, JUnit, SciKit, Lambda Functions
DevOps & Tools	Docker, AWS, Azure, Git, Maven, Swagger, Tomcat, Kafka, JSON, YAML

PROJECTS

Raster Data Exploration — Scala, Java, Apache Spark, Hadoop, JavaScript, HTML, CSS, Beast, Maven
[Bitbucket - https://bitbucket.org/ucrstaronraster/rasterviz](https://bitbucket.org/ucrstaronraster/rasterviz)

- Contributed to an open-source full-stack project enabling efficient exploration of terabyte-scale satellite imagery on HDFS. Developed on-the-fly tiling, custom indexing for millisecond pixel retrieval, optimized pre-generation and subset download for seamless visualization. Collaborated with Prof. Ahmed Eldawy to develop a custom algorithm for efficient tile pre-generation and on-the-fly rendering of satellite imagery.

Geovocab — Java, MySQL, Spring Boot, Docker
[Github - https://github.com/suryaacharan/geovocab](https://github.com/suryaacharan/geovocab)

- Engineered a groundbreaking solution to locate any geographic location using a combination of 3 simple English words, revolutionizing mapping and navigation.