

RANJITH REDDY GADDAM

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EDUCATION

Master of Science, Computer Science

California State University, Long Beach, CA

May 2023

4.0 GPA

Bachelor of Engineering, Information Technology

Chaitanya Bharathi Institute of Technology, Gandipet, India.

June 2021

3.7 GPA

TECHNICAL SKILLS

Programming: Python, Java, C++, R, Scala

Cloud Technologies: AWS

Web Technologies: Spring Boot, Flask, HTML, CSS

Database: SQL, MySQL, PostgreSQL, Snowflake

Tools: Docker, Terraform, Kubernetes, Kafka, Git, Jenkins, SSMS, Visual Studio, Jira

EXPERIENCE

Deloitte Consulting LLC, Dallas, TX

Oct 2023 – Present

Project Delivery Analyst (Python, AWS, Oracle SQL, Unix, Snowflake)

- Employed as a Backend Developer at a health insurance provider, proficient in utilizing **Python** for backend operations, and adept in managing **Oracle SQL** and **Snowflake** databases to support critical functionalities.
- Developed an automated Python script to efficiently **split large files** into smaller segments and streamlined the transfer process by securely uploading them onto a remote **Unix** server using **FTP**, significantly enhancing file transfer speed and efficiency.
- Automated data ingestion from **CSV files to Oracle database** tables using Python, optimizing efficiency and accuracy of the data loading process.
- Enhanced performance of Oracle SQL **stored procedures** through meticulous **tuning** and rigorous **testing**, resulting in notable efficiency improvements.
- Proficient in utilizing **Snowflake**, a cloud-based data warehousing platform, for database management and analytics.

FactSet Research Systems Inc, India

Jun 2021 – Dec 2021

Software Engineer (Python, Pandas, NumPy, C++, AWS, SQL, CI/CD)

- Developed and maintained a financial data and analytics integration software system in **Python**.
- Collaborated with a team of four to create a Python **API** called "Holiday Management" that fetches both future and past stock market index holidays for a given date range. Successfully achieved an average response time of **100 milliseconds** for API requests.
- Established **AWS** infrastructure and implemented Python-based **automated jobs** for data collection and storage. Decreased the server costs by **20%** by implementing auto-scaling using **Terraform**.
- Enhanced backend automation through AWS **Data Migration Service**, optimizing real-time database operations. Reduced data migration time by **70%** by automating it. Improved query performance by optimizing data schema and **indexing** strategies.

FactSet Research Systems Inc, India

Feb 2021 – Jun 2021

Software Engineer Intern (Python, Pandas, NumPy, AWS, SQL)

- Developed and maintained '**Benchmark Editor**', a robust Python-based internal tool that manipulates vendor data before **securely storing** it in a client database. Efficiently processed vendor data, resulting in a **30%** reduction in data processing time. The tool ensured **data integrity** and securely stored data in a client database, leading to **zero data loss** incidents over 2 years.
- Automated data integration with Python scripts, resulting in **reduced engineering workload**. This automation increased productivity, allowing the team to handle **50%** more data sources and focus on more critical tasks, such as data analysis and quality improvement.
- Designed and implemented a **job-queuing service**, to run on **AWS EC2**, for efficient management of multiple processes with limited resources.

Talent Excel, India

Apr 2019 – Aug 2019

Java Developer Intern (Java, Spring Boot, Hibernate, Kafka, JUnit, Mockito)

- Involved in the design and development phases of **Agile Software Development**. Developed java modules implementing business rules and workflows using **Spring Boot**.
- Utilized **Spring MVC** and **Hibernate ORM** to map Java classes to database tables, resulting in a 30% reduction in database access time and improved data retrieval efficiency.
- Utilized **Kafka** message broker for efficient message consumption and production, ensuring seamless communication between application components.
- Thoroughly tested applications using **JUnit** and **Mockito**, achieving a 95% code coverage and reducing defects by 25% through effective **unit** and **integration testing**.

ACADEMIC PROJECTS

Bug Hound ([Github](#))

Feb 2023 – May 2023

Collaborated in a team of three to design a python **flask**-based web application.

- Developed a bug tracking system enabling employees to report, assign, fix, and test project bugs.
- Successfully **led a team of three**, ensuring on-time project delivery and adherence to quality standards.
- Reduced bug regression rate by **50%** by implementing comprehensive **unit testing** and **code review** processes.

Malicious URL Detection using Machine Learning ([Github](#))

Dec 2020 – Apr 2021

Led a team of two to design and develop a Machine Learning model in python to detect unsafe URLs.

- Extracted URL attributes such as length and domain for **Naive Bayes** model input.
- Achieved **92%** accuracy with the model and developed a user-friendly **Chrome extension** on top of it.

OTHER WORK EXPERIENCE

California State University, Long Beach, CA

Jan 2023 – May 2023

Teaching Associate - Data Structures (20 hours/week)

- Tutored 30 undergraduate engineering students per week in Data Structures coursework.
- Created & graded lab assignments and hosted office hours for students.