

# RANJITH REDDY GADDAM

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## EDUCATION

**Master of Science, Computer Science** May 2023  
*California State University, Long Beach, CA* 4.0 GPA  
Relevant coursework: Advanced Analysis of Algorithms, Advanced Topics in Programming Languages, Advanced Software Engineering

## TECHNICAL SKILLS

**Programming:** Python, Java, C++, C#, R, JavaScript, Scala  
**Cloud Technologies:** AWS, Azure  
**Web Technologies:** Spring Boot, Flask, HTML, CSS  
**Database:** SQL, MySQL, PostgreSQL, MongoDB, Snowflake, InfluxDB, Cassandra  
**Tools:** Docker, Terraform, Kubernetes, Kafka, Git, Jenkins, SSMS, Visual Studio, Jira  
**Libraries:** NumPy, Pandas, Keras, TensorFlow, scikit-learn

## EXPERIENCE

**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.
- Ensured robust security measures by implementing Spring Boot and **Spring Security**, achieving a 95% reduction in security vulnerabilities, and ensuring data protection.
- 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.