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: Django, Flask, Spring Boot, HTML, CSS
Database: SQL, MySQL, PostgreSQL, MongoDB, Snowflake, InfluxDB, Cassandra
Tools: Docker, Terraform, Kubernetes, Git, Jenkins, SSMS, Visual Studio, Jira
Libraries: NumPy, Pandas, Keras, TensorFlow, scikit-learn

EXPERIENCE

FactSet Research Systems Inc, India Aug 2020 – 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 based on demand 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 May 2020 – Aug 2020
Software Engineer Intern (Python, Pandas, NumPy, AWS, SQL)

- Developed and maintained **'Benchmark Editor'**, a robust Python-based internal tool that efficiently manipulates vendor data before **securely storing** it in a client database. Efficiently manipulated and 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
Software Developer Intern (Python, Django, MySQL, *HTML, CSS, Flutter, Firebase)*

- Worked on developing a navigation app using **Django** framework for **optimal routing** and notification delivery. Implemented an efficient routing algorithm that reduced average travel time by **15%** for users.
- Designed and implemented a **fault-tolerant** application with **MySQL** integration via **REST API**. Ensured **99.9% uptime** for the application, resulting in a significant decrease in user-reported issues and improved overall user satisfaction.
- Utilized **Flutter** in combination of **Firebase** to create intuitive interface and deliver highly reliable solutions. Implemented **Firebase Cloud Messaging** for push notifications, resulting in a **30%** increase in user engagement and retention.

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.