GAYATHRI PRIYANKA GADDAM

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EDUCATION

SUNY Stony Brook University, Stony Brook, NY — **August 2024**
Master of Science in Computer Science — ***GPA: 3.67/4.00***

Jawaharlal Nehru Technological University, India — **August 2020 - March 2024**
Bachelor of Technology in Computer Science and Engineering — ***GPA: 4.0/4.00***

SKILLS

- **Programming Languages:** Python, C, C++, Java, Scala, Javascript, R, C#, React JS
- **Web Development & Frameworks**: Spring, Spring Boot, Angular, Django, REST API, Flask, Node.js, .NET
- **Data & Machine Learning:** Decision trees, Logistic regression, Bayesian analysis, Apache Spark, Apache Airflow, Databricks
- **Databases:** BigQuery, Snowflake, MongoDB, MySQL, PostgreSQL
- **Cloud & CI/CD:** Azure, BitBucket, Jenkins, Google Cloud, AWS, Docker, Kubernetes
- **Libraries & Tools:**Numpy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch, Large Language Models(LLM), HuggingFace
- **Technologies:**Helm, Salt stack, Docker,Splunk, Elastic Search, Kafka, Maven, Postman, Tensorflow, Git, OAuth, OpenID, Jenkins, Nginx,Terraform, Puppet, Jira, EC2, Lambda, VPC, IAM, S3, CloudFormation, Scripting,Logging, AI, Datadog, Cloud watch, Linux, Distributed Systems, Istio, Scala, gRPC, Load balancers, Routing, Wireshark, NLP, Agile methodologies, Redis

WORK EXPERIENCE

RealPage — Hyderabad, India
Software Developer, — **August 2023 – July 2024**

- Engineered the migration of a legacy invoice processing system from Microsoft Access to a **scalable, web-based architecture** using ASP.NET and React, improving maintainability, modularity, and system performance.
- Designed and developed **RESTful APIs** using .NET Core, implementing **asynchronous programming, middleware, and authentication** to ensure optimized request handling and secure third-party integrations.
- Optimized complex SQL queries by analyzing execution plans and indexing strategies, reducing execution time by **40%** and enhancing database efficiency.
- Implemented data validation and integrity constraints at API and database levels, reducing **data inconsistencies by 15%** and ensuring compliance with business rules.
- Integrated **OAuth and JWT-based authentication** mechanisms, strengthening system security and access control for users and third-party services.
- Implemented caching strategies using **Redis** and in-memory caching to reduce API response time, improving system scalability and performance.
- Conducted unit and integration testing using NUnit and JesPt, increasing test coverage and reducing production defects by **30%**.
- **Implemented logging and monitoring** using Serilog and Application Insights, improving issue tracking and system reliability.

Drivenest Services — Hyderabad, India
Software Engineer Intern, | Software Development, Spring boot — **June 2023 – October 2023**

- Migrated a Java-based on-premises infrastructure application to the Production available **AWS cloud** using **Kubernetes**, Elastic Search, and Python
- Managed Cloud Formation stacks and **Elastic Clusters, S3, and Lambda services** for seamless performance.
- Automated **CI/CD** pipeline builds and cluster deployment via **Screwdriver,** reduced deployment time by 40%.
- Resolved component dependencies, leading to a **90**% reduction in system errors and improved stability..

PROJECTS

Research Project, Advised by Dr. IV Ramakrishnan

- Working on Prospectus Fund Document Analysis in collaboration with Broadridge Financial Solutions, to **automatically extract** information from web documents and classify Funds and their classes based on textual context using **Python, OpenAI** and Complex NLP processing and value assignment using **ChatGPT**, Bard **LLMs**, Roberta Classification.
- Utilized **Beautiful Soup** for **HTML** scraping and **MongoDB** as the database solution, achieving a 90% accuracy rate

MYSTEGO–A Steganography Solution with AES Encryption and Digital Watermarking

- Designed and implemented a digital watermarking system using **DCT-DWT hybrid algorithms**, ensuring robust, imperceptible, and secure embedding of watermarks in multimedia files.
- Integrated AES encryption and steganographic techniques to enhance data security during file transmission, preventing unauthorized access and tampering.