Gowthami Polumuri

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EDUCATION

Masters in Computer Science | University of Georgia, Athens**| GPA**: 3.79 / 4.0   **Aug 2023- May 2025**
- *Coursework: Data Structures and Algorithms |Software Engineering |Computer Networks |DBMS |Machine Learning| Data Science| Cloud Computing| Computer Architecture |Operating Systems |Programming Languages*

Bachelors in Computer Science | RGUKT, Nuzvid, India **| GPA**: 8.79/10   **Aug 2018- Aug 2021**

SKILLS

- **Programming Languages:** Java, Python (sklearn, pandas, TensorFlow, PyTorch), SQL, C, PHP,PySpark.
- **Frameworks and libraries:** Spring Boot, ReactJS, Flask, Bootstrap, Node.js.
- **Cloud & DevOps:** AWS (Lambda, Glue ETL, S3, RDS, SES), Docker, Kubernetes, CI/CD pipelines, Jenkins, Terraform.
- **Database & Big Data:** PostgreSQL, MySQL, MongoDB, Apache Spark, Athena.
- **Web & Core:** HTML5, CSS3, JavaScript (ES6+), TypeScript, ETL, Problem Solving, Data Structures & Algorithms.
- **Tools & Application:** Git, Jira, Postman, Anaconda, Linux.

WORK EXPERIENCE

Capgemini, Hyderabad | Software Analyst| Python, AWS, PostgreSQL   **Apr 2022 – July 2023**
- **Developed and optimized end-to-end data pipelines** using AWS (Lambda, Glue ETL, S3, RDS), enhancing data processing efficiency by 30% and enabling seamless data integration across systems.
- **Extracted, cleaned, and validated complex datasets** from multiple partners, ensuring data accuracy and integrity by leveraging PLSQL and AWS services, which streamlined workflows and improved reporting accuracy.
- **Automated file transfers and data management** using AWS Lambda, PostgreSQL, and Athena, along with an SFTP server integration, reducing manual intervention by 50% and boosting data handling efficiency.
- **Reduced AWS operational costs by 20%** through proactive cost management strategies, including automated resource monitoring and efficient data storage practices, leading to sustainable, cost-effective operations.
- **Built automated notification workflows** utilizing AWS SES, Lambda, Step Functions, SNS, and an SFTP server to facilitate timely alerts for critical events, ensuring stakeholders receive real-time updates on pipeline status and error reporting.

HCL, Gannavaram| Software Engineer Intern | **Java, JavaScript, HTML & CSS**   **Apr 2021 – Oct 2021**
- Worked on a Hospital Management System (HMS) project using Java and JDBC, contributing to the development of a user-friendly interface and back-end functionality.

KEY PROJECTS

- **CineQuest | AngularJS, SpringBoot, Java and SQL**: Engineered movie booking website featuring an admin panel for site management and appealing UX design for user panel for booking, and browsing available movies.
- **Leaf Disease Prediction| ML, Deep Learning, Python:** Designed and implemented a deep learning model to accurately predict leaf diseases, achieving a 20% improvement in prediction accuracy.
- **UGA Dining platform| MySQL, ReactJS, JavaScript, Spring Boot**: Created an online platform for UGA's dining services using front-end technologies and MySQL, streamlining the ordering process for students.
- **Breast Cancer Detection | ML, Python, Flask:** Developed a Naive Bayes-based machine learning model for breast cancer prediction and built a Flask web app for real-time user input and diagnosis based on clinical data.

MEMBERSHIPS AND ASSOCIATIONS

- **Women in Cyber Security Club | UGA:** Engaged in workshops, networking, and mentoring to support and empower women in technology.
- **Subject Matter Expert, Chegg |** Delivered clear, accurate academic solutions in Computer Science, Math, and Statistics.

CERTIFICATIONS

- **AWS Certified Solutions Architect – AWS, 2023**
- **Google Data Analyst Certificate – Coursera, 2023**