CHAITANYA GINNELA

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EDUCATION

Purdue University Northwest   **Hammond, IN**
Master of Science - Computer Science - **CGPA** : 3.7/4   Jan 2024 - Dec 2025
Courses : Algorithms, Operation systems, Programming languages and interpreters, Machine Learning, Software Design, Distributed Systems, Object Oriented Programming, Networking, Software engineering.

Mahatma Gandhi Institute of Technology   **Hyderabad, India**
Bachelor of Technology - Electronics and Communication Engineering   Jul 2017 - Jul 2021
Courses : C, Java, Python, DBMS, Computer Architecture, Deep Learning, Machine Learning, Systems Engineering, Big Data.

EXPERIENCE

Accenture Private Limited Solutions   **Hyderabad, India**
Software Engineer II   *Sep 2021 - Aug 2023*

- Designed and maintained full-stack applications using .NET Core, Angular, and SQL Server, improving UI responsiveness and reducing user-reported production issues by 30%.
- Developed and deployed 25+ RESTful APIs powering healthcare and financial modules, enhancing backend–frontend data integration speed by 25% and enabling real-time analytics.
- Built 10+ SSIS/ETL packages to automate nightly data refresh cycles and large-scale transactional processing of 1M+ records/day, eliminating 90% of manual data operations.
- Optimized SQL stored procedures and queries, reducing query runtime by 35% and boosting overall system throughput for high-volume reporting workloads.
- Implemented CI/CD pipelines in Azure DevOps, enabling gated approvals, unit-test automation, and zero-downtime releases—cutting deployment time by 40%.
- Integrated microservices and API-based architecture for modular deployment across multiple environments, ensuring scalability and fault isolation.
- Developed Python-based automation scripts for error monitoring, API validation, and log parsing, reducing manual debugging efforts by 25%.
- Enhanced frontend maintainability by building reusable Angular components (Reactive Forms, RxJS Streams, shared services), reducing code redundancy by 20%.
- Configured OAuth2/JWT authentication and audit logging, strengthening application security and improving traceability coverage by 25%.
- Mentored a team of 4 junior developers, guiding them on debugging, version control (Git), and clean code practices— improving sprint velocity by 15%.
- Collaborated in Agile Scrum teams with QA, DevOps, and product owners, maintaining 99.5% system uptime and ensuring 100% sprint delivery compliance.

PROJECTS

E-commerce Application / *Spring Boot, Kafka, Redis, MongoDB, Docker, Kubernetes*   *Jul 2025*
- Built an E-Commerce platform using microservices architecture, developing Product, Cart, Orders, and Payment services with RESTful APIs, Redis caching, and Kafka event streaming, improving response times.
- Deployed services in Docker/Kubernetes with CI/CD pipelines, ensuring scalable, fault-tolerant, and zero-downtime releases in a cloud environment.

Weekly Management System / *JavaScript, HTML5/CSS , Django, PostgreSQL, Data Structures, Excel*   *Jan 2025*
- Developed a Weekly Management System as a master's project, improving task and calendar management efficiency by 30%, enhancing UI responsiveness by 25%, and reducing page load times by 15% using JavaScript.
- Applied unit testing, and testing methodologies to ensure system reliability and performance.

Automated Fare Management System / *.NET Core, D365, SQL Server, Azure DevOps, OAuth2/JWT*   *Jan 2022 - Aug 2023*
- Engineered and deployed RESTful microservices for large-scale fare collection and payment processing, improving transaction speed and data consistency for 10K+ daily commuters.
- Implemented CI/CD pipelines using Azure DevOps and secured APIs with OAuth2/JWT, ensuring 99.5% uptime and compliant, zero-downtime production releases.

TECHNICAL SKILLS

Languages   : C, C#, Java, Python, HTML/CSS, JavaScript, SQL, XML, JSON, Assembly
Frameworks   : ASP.NET Core, ASP.NET MVC, React, Angular, Django, RESTful services, REST API's, Node.js
Cloud Platforms : Azure, Google Cloud Platform (GCP)
Databases   : MongoDB, PostgreSQL, MySQL, SQL Server Management Studio, No SQL
Tools: Azure DevOps, Junkins, AWS, PyTorch, Scikit-Learn, Jira, Postman API, Apache Kafka, Git, Excel, GitHub.
Agile Methodologies   : QA methodologies, Scrum, Agile practices, including tools like Jira.
AI & Machine Learning : TensorFlow, Pytorch, Keras, CNNs, NLP

ACHIEVEMENTS & CERTIFICATIONS

- Achieved certification from Amazon ML Summer School with a focus on model optimization and predictive analytics; enhanced model accuracy by 20% in 5+ practical projects.
- Data Engineer with Python and Data Science certifications from Data Camp, specializing in data pipelines, data transformation, data analysis, machine learning, and data visualization.
- AWS Cloud Parctitioner Certificate
- **Monthly Star Award** – Recognized for consistently exceeding performance expectations.