

PRATEEK CHOUDAVARPU

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EXPERIENCE

Daedalus Cybernetics

Oct 2024 – Dec 2024

Part-Time Software Developer

Clemson, South Carolina

- Revamped glitchy WordPress sites by building responsive interfaces using React, JavaScript, HTML5, and CSS3, accurately translating Figma designs and increasing user engagement by **20%**.
- Identified and resolved **8+** rendering issues and page loading errors across all web pages, eliminating bugs and delivering a **99.8%** error-free browsing experience.

Cognizant Technology Solutions

July 2022 – June 2023

Program Analyst

Hyderabad, India

- Migrated **55+** legacy XML files into efficient Python scripts for a Major Global FinTech client's payment processing pipelines and Google Cloud Platform integration, resulting in **40%** faster data retrieval and enhanced module performance.
- Implemented a Jenkins CI/CD pipeline to automate GCP bucket deployments, working within an Agile team environment and using JIRA for sprint planning and task tracking, resulting in a **30%** improvement in deployment efficiency.
- Enhanced audit module performance by optimizing SQL queries using PySpark DataFrame and BigQuery, achieving **30%** faster job tracking across **400+** scheduled processes per cycle.

Player Orbit

Jan 2022 – Mar 2022

Backend Developer Intern

Nagpur, India

- Developed a User Authentication microservice API using Spring Boot (Java) and MongoDB, handling **5,000+** daily requests.
- Reduced API response from **1.3 to 1** seconds, achieving a **33.3%** reduction in latency and boosting API performance.

EDUCATION

Clemson University

Aug 2023 - May 2025

Master of Science in Computer Science (GPA: 4 / 4)

Clemson, SC

- **Relevant Coursework:** Machine Learning, Cloud Computing Architecture, Deep Learning, Foundations of Software Engineering, AI Software Engineering, Statistics.
- **Graduate Teaching Assistant:** Instructed **230+** students in the Foundations of Software Development course by delivering hands-on instruction in SDLC, OOP (Java/C#), .NET microservices, and Agile methodologies through Scrum-based team exercises.

PROJECTS

Humming Hire - AI Backend Service | Java Microservices, Spring Ecosystem, Amazon Web Services, AI Integration, LLM, GenAI

- Architected a scalable recruitment backend using Java Spring Boot with REST APIs and PostgreSQL, leveraging Spring AI to enable backend interaction with LLMs for intelligent candidate-recruiter matching, decreasing matching time by **20%**.
- Designed modular microservices deployed via Docker on AWS, integrating Spring Security for authentication, Kafka for real-time notifications, and Spring Cloud for service discovery—resulting in **40%** improved search accuracy.

Scheduler Calendar Component | NextJS, TypeScript, PostgreSQL, Supabase, TailwindCSS

- Developed a reusable calendar scheduling component with NextJS, TypeScript, and TailwindCSS that reduces integration complexity for developers, simplifying event scheduling from multiple steps to just **2** steps, saving development time.
- Streamlined a solution supporting recurring events, task creation, and custom scheduling that improves application workflow efficiency while maintaining faster data retrieval through Supabase and PostgreSQL integration.

Dockerized REST API for Health Records Management | Python, Flask, Swagger, SQLite, Docker

- Developed and deployed a scalable RESTful API using Python, Flask, with auto-generated Swagger documentation, improving developer onboarding and reducing API documentation effort by **40%**.
- Containerized the application using Docker for consistent local and production environments, increasing deployment reliability by **50%** and enabling easy integration into CI/CD workflows.

TECHNICAL SKILLS

Programming: Java, Python (NumPy, Pandas, Scikit Learn, CNN, Matplotlib), C++, JavaScript, TypeScript, Shell Scripting, HTML, CSS, C#

System Engineering: Distributed Systems, Performance Optimization, Microservices Architecture, Linux Operating Systems

Frameworks & Technologies: Spring Framework (Spring Boot, Security, Cloud), Flask, .NET, REST APIs, JWT, Android App Development, Mobile Application Development

Cloud & DevOps: Amazon Web Services, Microsoft Azure, Kubernetes, Docker, Jenkins, CI/CD

Databases: Microsoft SQL Server, PostgreSQL, AWS Redshift, MySQL, BigQuery, MongoDB, SQLite

Tools: Mockito, JUnit, Git, Anaconda, Visual Studio, IntelliJ IDEA, Postman

Data Processing: PySpark, Kafka, DataFrames, BigData Analysis, Data Engineering, Transaction Management

Project Management: SDLC, Agile (Scrum/Kanban/XP), Jira

Certifications: Microsoft Azure Cloud Fundamentals, Java Certification, Preparing for AWS Solutions Architect Certification