PRATEEK CHOUDAVARPU

+1(609)672-3009 | pchouda@clemson.edu | https://www.linkedin.com/in/prateek-choudavarpu/
https://leetcode.com/prateek10201/ | https://github.com/prateek10201 | https://prateekchoudavarpu-portfolio.vercel.app/

PROFESSIONAL EXPERIENCE

Daedalus Cybernetics
Clemson, SC

Partime Software Developer
Oct 2024 - Dec 2024

- Developed a fully responsive company website using **JavaScript**, **HTML**, **CSS**, and **Webflow** to enhance user engagement by **20%**.
- Implemented dynamic animations and interactive UI elements across landing pages, resulting in a **35%** improved user navigation.

Cognizant Technology Solutions
TS, India

Programmer Analyst Trainee
July 2022 - June 2023

Client - PayPal / Migration Projects

- Optimized **49** legacy **XML** scripts into **Python** scripts for the **PayPal Fact Development** and **GCP Fact** projects, enhancing the performance of these Fact Modules and reducing data retrieval processing time by **40%**.
- Orchestrated the continuous integration and deployment of these **49** Python scripts into **GCP buckets** via **Jenkins**, facilitating automated updates and improving deployment efficiency by **30%**.
- Restructured the **audit module** using **DataFrames** in **PySpark**, improving Python script job status tracking. Enhanced functionality reduced job tracking time by **30%** and streamlined monitoring for over **400** scheduled jobs every cycle.
- Leveraged **BigQuery** to test code on **50** sample scripts and further implemented in **DataFrames**, achieving a **30%** reduction in debugging time.

Player Orbit
MH, India

Backend Developer Intern
Jan 2022 - Mar 2022

- Implemented end-to-end feature development for an **Authentication Microservice** using **Spring Boot** and **MongoDB** and streamlined **REST API** for seamless frontend backend communication, which now processes over **5,000** authentication requests daily.
- Enhanced user experience by reducing API response time from **1.3** seconds to **1** second, achieving a **33.3%** decrease in latency and boosting performance.
- Integrated **JWT** for secure and efficient user authentication and **BCrypt** for robust password hashing and enforced **SHA256** to ensure data integrity, enhancing the system's security.

PROJECTS

SfUIT (Java, Software As A Service, SpringBoot, PostgreSQL) | Link

- Developed a robust **Backend API** using **Java** with the **Spring Framework** for the *Smart Fabric Using the Internet of Things* (**SfUIT**) prototype, a **SaaS** solution designed for continuous health monitoring of individuals.
- Engineered closely with a team of **5** to develop an *MVP* featuring **5** distinct, customizable solutions and garnered over **500** positive reviews, resulting in a **25%** increase in product visibility.

Humming Hire (Java, SpringBoot, PostgreSQL, Kafka, Docker, Spring Security, AWS) | Link

- Designed and developed a full-scale Job Portal **Backend** API using **Spring Boot** and **PostgreSQL**, implementing **REST** APIs for user management and job operations with **30%** faster candidate-recruiter matching.
- Engineered a robust **microservices** architecture integrating **Spring Security**, **Kafka** for notifications, **Spring Cloud** for deployment, and **Spring AI** for enhanced job search, achieving **99.9%** uptime and **40%** improvement in search relevancy.

Scheduler Calendar Component (NextJS, Supabase, TailwindCSS) | Link

- Engineered an end-to-end scheduling solution with **NextJS** frontend and **Supabase** backend that streamlined appointment booking workflows, reducing user interaction by **30%** through intuitive UI design and efficient backend architecture.
- Implemented real-time database synchronization with **PostgreSQL** (via *Supabase*), custom authentication flows, and **RESTful API** integration, improving data retrieval speed by **35%** while maintaining application security and integrity.

SKILLS

Programming Languages & Core Technologies: Java, Python, C++, C, JavaScript, TypeScript, HTML, CSS, Object-Oriented Programming, Git, React Hooks, State Management.

Backend Development & Frameworks: Spring Boot, Spring Web, Spring Security, Spring Cloud, Spring Kafka, ASP.NET, NextJS, REST APIs, JWT, Microservices, JUnit, Postman, API Design, Spring AI, SDLC, Agile.

Frontend Development: React, TailwindCSS, Responsive Design, UI/UX, NextJS, Client-Side Rendering, Server-Side Rendering

Database, Cloud & DevOps: PostgreSQL, MongoDB, MySQL, BigQuery, Supabase, AWS EC2, Azure Cloud, GCP, Docker, Jenkins, Vercel Deployment, Version Control, Git Workflows, Performance Optimization

Data Engineering & Analytics: PySpark, DataFrames, XML, Python Scripting, BCrypt, SHA256, Apache Kafka.

EDUCATION AND ACADEMIC EXPERIENCE

Clemson University, *Graduate Student*
Clemson, SC

*Master of Science, Computer Science, **GPA-4/4***
Aug 2023 - May 2025

Courses: Machine Learning, Foundations of Software Engineering, Cloud Computing Architecture, AI-Receptive Software Engineering

Graduate Teaching Assistant
Jan 2024 - Present

- Instructing over **230** students across **Software Development Foundations** and **Introduction to Software Engineering** courses.
- Taught vital concepts such as the **Software Development Life Cycle**, **Object-Oriented Programming (OOP)** using **Java** and **C#**, **Agile** Methodologies, and **Microservices** architecture using the **.NET** framework, along with **Git**, and **Azure Cloud**.