# PHANI SRI HARSHA NANNAPANENI

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Software engineer with 2+ years of experience in full-stack development using Python, Django, and React. Skilled in designing and implementing scalable enterprise systems, REST APIs, and database optimization.

## EXPERIENCE

### Python Developer
**Scholar IT Solutions, Duluth, GA**                                              **AUG 2023 – MAR 2025**

- Implemented a multi-tenant architecture for an HR management platform, enabling seamless client data isolation on shared infrastructure, supporting onboarding of 5+ enterprise clients.
- Optimized user login flow by integrating JWT-based authentication with role-based access control across Django REST APIs, reducing support tickets by 40%.
- Developed and deployed scalable ETL pipelines using Python and SQLAlchemy to automate data ingestion from Azure SQL and third-party APIs, cutting manual effort by 60%.
- Built responsive React components for dashboards, integrating state management and RESTful API calls to deliver dynamic user experiences.
- Enhanced backend performance by 30% via query tuning, Redis caching, and indexing, improving report response times for high-volume clients.
- Containerized services with Docker and deployed microservices on AWS EC2, leveraging Lambda and S3 lifecycle policies to reduce storage costs by 25%.
- Designed star schema models in PostgreSQL, optimizing analytical queries and improving dashboard load speeds by 75%.
- Scheduled and automated recurring data workflows using cronjobs, with system monitoring via CloudWatch and Prometheus for early issue detection.
- Collaborated with QA and frontend teams in an Agile setup, achieving a 97% bug resolution rate in initial testing and fast feature delivery.

### Junior Python Developer
**CROWLEY WEBB, Buffalo, NY**                                              **FEB 2023 - JUN 2023**

- Developed and implemented an ETL process using SQLAlchemy and PyODBC in Python, reducing Azure SQL query time by 75% and enabling rapid dashboard creation.
- Improved data accuracy by 5% and enhanced decision-making by manipulating ETL data with Pandas and visualizing outputs in Looker (Google Data Studio).
- Automated the ETL pipeline using a cronjob, reducing manual intervention and ensuring consistent, timely data processing.

## KEY SKILLS

**Programing tools:** Python (Django, FastAPI, Pandas, PySpark, PyODBC, SQLAlchemy, scikit-learn), JavaScript, Java.
**Front-End Technologies:** HTML, CSS, React, Bootstrap, REST API integration.
**Database tools:** Microsoft SQL Server, PostgreSQL, MongoDB, Oracle.
**Cloud:** AWS (EC2, S3, RDS, Lambda), Azure.
**Other Tools:** Git, GitHub, Docker, Kubernetes.

## ACADEMIC PROJECTS:

**Sentiment Analysis of SVB Bank Collapse:** Analyzed social media sentiment during Silicon Valley Bank collapse using sentiment analysis, PCA, and K-means clustering to identify public opinion patterns and trends.
**Predictive Analytics** - Developed ML classification, regression algorithms in Python, for Boston house price prediction and personal loan acceptance.

## EDUCATION

**UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK**
Master of Science, Business Analytics (STEM Designated) - GPA 3.867/4.0                      AUG 2022 - JUN 2023
**CVR COLLEGE OF ENGINEERING, HYDERABAD, INDIA**
Bachelor of Technology, Electronics and Communication Engineering                      JUN 2018 - JUN 2022