

Shriyukta Ram

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SKILLS

Programming Languages: SQL, Python, C++

Database: Oracle DB, MySQL, PostgreSQL, MongoDB, Spark SQL

Cloud & Big Data Tools: AWS (S3, Redshift, Athena), PySpark, Hadoop, Scala

Web Development: ReactJS, Laravel, JavaScript

Systems, OS & DevOps: Mac, Linux, Windows, Android, Distributed Systems, CI/CD, Docker, GIT, Jenkins

APIs & Automation: REST APIs, JSON, Postman, and Airflow

AI & ML: PyTorch, NLP, Scikit-Learn, TensorFlow, OpenCV, CNN, RNN

WORK EXPERIENCE

Software Developer

June 2025 – Present

YourPassion1st

Remote

- Engineered scalable Python-based web scraping tools integrated with LLMs (Google Gemini Pro + Google Colab), increasing event data extraction accuracy by 42% and reducing false positives by 30% across 10+ youth opportunity sites.
- Developed and deployed cross-platform features using React Native, Node.js, and Azure services for a gamified mentorship mobile app, enhancing user engagement by 30% and supporting 500+ pilot users via Azure AD B2C.
- Built RESTful APIs and optimized PostgreSQL queries for real-time event, user, and opportunity data, improving API response times by 40% and streamlining backend performance in a cloud-native environment hosted on Microsoft Azure.

Oracle Database Engineer

Aug 2021 – June 2023

Tata Consultancy Services, Client: HP

Bengaluru, India

- Automated health checks and monitoring scripts for 100+ Oracle database instances, streamlining checks on tablespace utilization, and backup statuses, which improved incident response time by 40% and reduced storage overhead by 15%.
- Streamlined backup and recovery workflows using RMAN and shell scripting to ensure daily data protection, and proactively right-sized tablespaces to support high-traffic global e-commerce platforms with 99.99% uptime.
- Led root-cause analysis and resolution of production DB failures (e.g., constraint violations, index drops, long-running jobs), replicating issues in UAT and deploying stable fixes; collaborated on PL/SQL package debugging to improve data consistency across regions.

EDUCATION

Master of Science in Computer Science | GPA: 3.8

Aug 2023 - May 2025

The University of Texas at Arlington

Arlington, Texas

Specialization: Artificial Intelligence and Database Systems

Bachelor of Engineering in Telecommunication Engineering | GPA: 8.9

Aug 2017 - July 2021

K.S. Institute of Technology

Bengaluru, India

PROJECTS

Database System for a Mobile Phones Store Chain

Spring 2024

- Designed a fully normalized PostgreSQL database simulating operations across 5+ locations, including inventory, sales, and staffing modules.
- Developed 10+ complex SQL queries and stored procedures to generate executive-level sales and performance reports, projecting up to 15% improvement in business decision accuracy.

AI-Powered Food Recognition & Calorie Estimation

Fall 2024

- Engineered a real-time food detection model using YOLOv5 and TensorFlow, achieving 96.2% precision and 94.2% recall.
- Deployed OpenSearch indexing for low-latency lookups and calorie tracking, cutting retrieval time by 40% and enabling live user feedback.

Smart Health Hub: Healthcare Ecosystem Web Application

Spring 2024

- Built a 60+ screen responsive healthcare platform using React, Laravel, and MySQL, improving system integration efficiency by 30% and reducing backend response time by 22%.
- Enabled 15+ patient-side and 20+ admin features including ChatGPT-powered symptom checker and compliance dashboards, boosting user engagement by 25% during usability testing.

GamePlan: Agile-Based Android Application

Spring 2024

- Designed and developed an Android app to streamline sports venue scheduling, improving booking efficiency by 35% and enhancing admin oversight through automated workflows.
- Implemented 11+ core features including secure login, event management, and real-time reservations, showcasing expertise in full mobile development lifecycle and intuitive UI/UX practices.