

Ravi - Software Engineer

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Work Experience & Projects

Software Engineer (Student Assistant IV) UCR, Riverside, USA

Jan 2024 - Present

- Leading the development of a **Full-Stack (React & Python)** website for CupCake, an innovative carbon cycle model.
- Creating a **Retrieval-Augmented-Generation (RAG)** based machine learning chatbot model to support research.

Senior Software Engineer, Oracle, Hyderabad, India

Jan 2022 - Sept 2023

- Successfully led the development and optimization of **cutting-edge ad-tech solutions**, driving a remarkable **40% increase in system efficiency**, which significantly enhanced platform scalability and reduced operational costs.
- Spearheaded the transition from **monolithic to containerized microservices** using **Docker, Kubernetes, ArgoCD, AWS and OCI clouds**, reducing vulnerabilities by **50%** and increasing **operational efficiency** by over **70%**.
- **Key Project: VpaidWrapper (An Innovative Ad-Tag Wrapper)**
 - Conceptualized and implemented a full-stack web solution - **VpaidWrapper Tool** for seamless **Ad-Tracking** integration, processing and aggregating over **500 million pixels of Ad-Data** weekly in **AWS and OCI** clouds.
 - Developed a **Monitoring & Alerting system** using **Prometheus and Grafana**, achieving a **30% reduction in downtime** and ensuring real-time alerts via **Slack, Email, and Mobile App**, improving response time by **70%**.
- **Key Project: MoatPro (Oracle's Ad Search Engine)**
 - Led the **containerization** of Oracle's **MoatPro Ad-Search Engine** with **Docker, Kubernetes, ArgoCD and OCI Cloud**, improving security and reducing **performance bottlenecks by 40%** through telemetry.

Product Development Engineer II, Phenom, Hyderabad, India

Feb 2020 - Dec 2021

- Created **Real-Time data processing pipelines** for Phenom's **HR Tech Platform**, decreasing processing times by **40%**.
- **Key Project: CRM - Profile Service (HR Tech SaaS Platform)**
 - Designed and implemented a **priority-based multi-threaded algorithm** that reduced candidate location discrepancies by **60%** for over **2 million+ profiles**, improving **CRM location search** and **job recommendation accuracy**.
 - Created a **Java-MongoDB Solution** that corrected millions of incorrectly merged candidate profiles seamlessly, reducing developer bandwidth by **90+%** and boosting **data integrity** by **35%**.

Software Engineer, Vassar Labs, Hyderabad, India

May 2017 - Feb 2020

- Successfully **Led a Team of 6 Developers** and designed and engineered large-scale Indian Government data systems for **real-time** water resource management, enhancing decision-making.
- **Key Project: Water Resource Information Management System (APWRIMS)**
 - Led the development of Andhra Pradesh's state-level **SCADA system**, driving a **20% improvement in water resources allocation** through real-time **data tracking and visualization**.
 - Prepared an **automated reporting feature**, reducing report generation time by **90%**, with **one-click PDF reports**, saving **10+ hours** of non-developer manual work per month.
- **Key Project: Unified Government Data Dashboard (DMA-UD)**
 - Engineered a **Unified Government Data Dashboard** integrating data from **12+ sectors**, boosting transparency and enabling **Real-Time Monitoring**. Built **APIs in Java** with Play Framework for seamless data delivery.

Skills

Programming Languages	Java (7, 8, 11+), Python (2, 3+), JavaScript (ES6+), GoLang (Beginner)
Scripting Languages	HTML, CSS
Core CS	Object-Oriented Programming, Data Structures, Algorithms, Problem Solving
AI Tools	ChatGPT, Google Gemini, Llama
Testing Tools	Selenium, Postman, JUnit, JMeter, LoadRunner
Libraries/Frameworks	NodeJS, Spring, SpringBoot, Maven, Gradle, Flask, Pyramid, Angular, React
Code Architectures	Monolithic, Microservices, Distributed Systems
Big Data Technologies	Spark, Hadoop, Storm, Kafka, ELK Stack, ETL Pipelines
Cloud Platforms	AWS, GCP, OCI
DevOps Tools	Docker, ContainerD, Kubernetes, Rancher Desktop, Helm, Kustomize, Jenkins, ArgoCD
Monitoring Tools	Prometheus, Grafana, PagerDuty, AWS-CloudWatch
Version Control	Git, Github, GitLab, BitBucket, CI/CD
Databases	MySQL, MongoDB, Cassandra, PostgreSQL, ElasticSearch

Education

MS in Computer Science & Engineering, University of California, Riverside

2023 - 2025

B.Tech in Computer Science & Engineering, Jawaharlal Nehru Technological University, Hyderabad

2013 - 2017