

# REVANTH SHADA

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## SUMMARY

Full Stack Software Developer with **2+ years of experience** in Python, Java, Spring Boot, and full-stack application development and deployment. Quick learner and adaptable to new technologies, with expertise in **backend APIs, databases, and cloud services**. Seeking **entry-level** or **graduate software developer** roles to contribute technical skills and grow in a dynamic environment

## EDUCATION

**Master of Science, Computer Science**  
San Jose State University, San Jose, CA

## SKILLS

Java, Python, MySQL, PostgreSQL, NoSQL, MySQL Aurora Swift, R, JavaScript, C/C++, C#, HTML, Kotlin, PHP, Ruby, MongoDB, Django, SNS, SQS, Lambda, Docker, DSA, AWS, salesforce, full-stack, AWS, EC2, .NET, operating systems, Jenkins, Firebase, Node.js, Swing, full stack, data structures  
Software Tools: jQuery, React.js, SOAP, Figma, REST API, nginx, JSON, Swift, Red Hat Linux, VueJS, Kafka, packet tracer, regression, Junit, DynamoDB, Apache Nifi  
Frameworks: Spring, Spring Boot, TensorFlow, Flutter, Tableau, Unit test, git, github, Postman, Linux, UNIX, Pytorch, iOS  
Libraries: OpenCV, pandas, NumPy, Matplotlib, spacy, Scikit-learn, Seaborn, data science, NLP, statistics, data analytics, web crawling

## EXPERIENCE

**Associate Software Engineer**, Pragmatic Play India Pvt. Ltd, Hyderabad, India Jan 2023 - Jul 2023

- Designed and executed **server-side APIs** utilizing **Java, Spring Boot, and SQL** technologies by creating **REST API** service in **Linux env** and **managed version control** for an **internal portal**, computerizing manual data storage tasks for 100+ users
- Enhanced APIs for two gaming projects by optimizing the **Postgres SQL queries**, resulting in a 45% improvement in performance
- Ensured seamless API integration** between backend and frontend services by collaborating with **cross-functional teams**, enhancing user experience
- Integrated **Redis** caching with **Spring Boot APIs**, reducing database load by 60% and **improving response times**, while enabling **real-time communication** with **Kafka-based message broadcasting**

**Software Developer**, VIT, Vellore, India Sep 2021 - Dec 2022

- Developed and maintained **automated data extraction pipelines** using **Python**, parsing varied file formats and ensuring **data accuracy** through **robust retesting**
- Deployed containerized applications via **Docker on AWS EC2** and **automated workflows** using **Apache NiFi**, with real-time ingestion from **Amazon S3** to **PostgreSQL** and **MongoDB**
- Built **RESTful APIs** using **Python (Flask)** and **PostgreSQL**, and implemented **Redis caching** to optimize response times for client-facing services. Utilized **Postman** for testing the endpoints
- Created a real-time shuttle tracking system with a **Python-Flask backend** and **React frontend**, and monitored performance using **Splunk, Grafana, and automated Bash scripts**

**Mobile Application Developer Intern**, Cryptographic Solutions, Trichy, India Jul 2021 - Sep 2021

- Developed an **iOS app** using **Swift** in an Agile team, ensuring **seamless UI/UX**
- Optimized app performance by **refactoring code** and resolving **frontend-backend** bottlenecks using **RESTful APIs**

## PROJECT EXPERIENCE

**Adversarial Prompt Injection for LLM Vulnerability Analysis**, San Jose Sep 2024 - present

- Designed and executed **adversarial prompt injection attacks**, analyzing **response variations** to assess **LLM vulnerabilities**, **jail broke** **successfully**
- Fine-tuned a large language model using **LoRA** and **PEFT** on a **custom synthetic dataset** with **1,500 QA entries** consisting of 'what', 'why', 'how' kind of questions and **50 behavioral** edge cases
- Successful training of the model, **successfully defends adversarial prompt attacks** post training after finetuning with a **training loss of 0.24**

**Price Prediction of Amazon Products Using Textual Data**, San Jose Mar 2024 - Jun 2024

- A **Large Language Model** for Product Pricing. Used GPU Accelerator to train data. Developed a **ML NLP model - BERT** to predict prices of Amazon products based on various attributes, deploying **dataset** comprising over **800,000** product listings
- Stemming, Lemmatization, and Stop Word Removal**, alongside regular data **preprocessing**, reducing data inconsistencies by 35% and improving processing efficiency by 25%
- Utilized **Python, TensorFlow**, and leveraged **textual features - title, features of product** - and sales rank to **predict prices**
- Tuned hyperparameters and selected features across data sizes (50%, 60%, 75%), achieving optimal RMSE of 48.59 at 60%

## ACHIEVEMENTS

- CCNA (Cisco Certified Network Associate) Sep 2023 - present
- Instructional Student Assistant - Machine Learning May 2024 - present