SANKET BONDRE

+91 8208770364 | 🌐 sanketb.com

✉ sanketskbtm61@gmail.com 💼 linkedin/sanketbondre ⃝ github/BrolyDBZ </> leetcdoe/broly

Experience

Arkose Labs   **Sept 2023 – Present**

Software Development Engineer

- Designing and architecting a Server-Side Detection API to expand Arkose product capabilities to non-browser platforms, like Roku, Apple TV, IoT, STB, and IPTV devices; addressing key use cases such as registration fraud, account takeover, and payment risk, to strategically position Arkose for entry into the billion-dollar API security market.
- Developed and managed champion/challenger data pipelines using Airflow DAGs, processing ~ 6 billion sessions every 4 hours, to automate testing and validation of device signature rules, promoting challengers to champion based on performance, thereby enhancing detection capabilities and mitigating fraud and attacks.
- Led cost-reduction initiatives for team, including DynamoDB to ScyllaDB and IP vendor migration, achieving 2x database cost savings, enabling cloud-agnostic architecture, and reducing vendor costs by 30%.
- Designed and developed analytical jobs to detect outliers, analyze reputation, and set thresholds for attributes like ISP, device signatures, and browser name & versions—enhancing detection efficacy and overall system performance by flagging millions of fraudulent sessions.
- **Tech Skills:** Go, Python, AWS, Apache Airflow, Kubernetes, Terraform, Splunk, Argo, Athena, Dynamo, ScyllaDB

Incentius   **Jan 2022 – Aug 2023**

Software Development Engineer

- Developed an iPadOS application for a data-intensive CRM system using Vuejs, resulting in improved user experience and increased efficiency for the business.
- Built a highly optimized RESTful API using SOLID Principles in Flask and Python, streamlining the data retrieval and processing workflow
- **Tech Skills:** Python, Flask, AngularJs, Vue, Postgresql, AWS

Technical Skills

Languages: Golang, Python, Javascript, Sql
Technologies: Amazon Web Services (AWS), Kubernetes, Terraform, Docker, Prometheus, Postgresql, DynamoDB, Athena, ScyllaDB, Keras, Tensorflow, Flask, Django
Tools: Git, Jira, ArgoCD, Splunk SignalFX, Apache Airflow, Apache Superset

Education

Vishwakarma Institute of Information Technology   **May 2022**

Bachelor of Technology | GPA: 9/10

Relevant Coursework: Data Structures and Algorithms, Distributed Sytstem, Sytem Design(High/Low Level), Object Oriented Programming, Machine Learning/Deep Learning

Projects

Raft (Distributed Consensus) | *Golang*

- Implement Raft consensus (a replicated state machine protocol) with a Leader Election, Log Replication, Persistence Storage, and log compaction(Snapshot).
- The raft consensus algorithm guarantees fault tolerance, high availability, and consistent state agreement among nodes even in the event of failures or network partitions.

Covid Severity Detection | *Python, Tensorflow, Keras*

- Designed and developed Machine Learning Classification and Segmentation (U-net) models for detecting and predicting disease severity in Covid-19 patients using pre-trained architecture such as InceptionV3 and Res-Net.
- Compared the performance and accuracy of different architectures for detecting COVID-19 in CT-Lung images. The model's accuracy ranged from 88% to 95%, trained using various hyperparameters.