Maneesh Gonegary

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EDUCATION

State University of New York at Stony Brook — Stony Brook, NY
Master of Sciences in Computer Science — *Aug. 2023 - May 2025*

Birla Institute of Technology and Sciences — Hyderabad, India
Bachelor of Engineering in Computer Science — *Aug. 2018 – May 2022*

EXPERIENCE

Software Development Engineer - 1 — July 2022 – August 2023
Rupifi | Golang, Python, Redis, Gin, protobuf — *Bangalore, India*
- Primarily worked on payment gateway(PayU, Razorpay, Easebuzz) API integration and iteratively developed and improved over our in-house APIs.
- Developed our own webhook mechanism for sending, receiving and managing webhooks - used to notify anchors on occurrence of an event. Developed caching and logging mechanisms for team services. Implemented a file management system by integrating AWS S3 for scalable object storage.
- Integrated various in-house microservices including generic microservices like messaging/whatsapp services, webhook managers, link shorteners among others aiding in active functioning of team's services. Actively ran SQL queries for management of database according to team's requirements.

Software Engineering Intern — Aug. 2021 – Dec 2021
Flipkart | Java, Micronaut, Kubernetes, Docker, Python, bloomRPC, Locust, protobuf, gRPC — *Bangalore, India*
- Deployed team services onto Kubernetes clusters.
- Development and management of CI/CD Jenkins pipelines. NFR testing using Python scripts.
- API development integration of both REST and gRPC APIs for in-house purposes.

Mobile App Development Intern — May 2020 – June 2020
Convergent Technologies | Kotlin, Android Studio, Java — *Gurgaon, India*
- Developed a fitness tracker app that included a personally tailored calorie counter, step counter and activity tracker improving upon Google's pre-existing step counter.

PROJECTS

LLM-Powered Chat Application for SQL databases | *Python, GPT-3.5, LangChain, SQL, Streamlit* — Dec 2023
- Built a GPT-powered application to interact with and extract information from SQL databases.
- Web app built using *streamlit. LangChain's React SQL Agent*used to interact with the SQL database.
- Data is streamed from API to Kafka topic. Data consumed from Kafka topic, processed and transferred to PostgreSQL database by Spark job. Apache Airflow used for handling execution of streaming and processing.

Predicting Flight Delays | *Python, Selenium, BeautifulSoup, pandas, R Studio* — Oct 2023 – Dec 2023
- Exploratory analysis of causes of flight delays across the US including weather conditions, cascading delays and geographic location.
- Predictive models built to predict flight delay utilising LSTM and XGBoost.
- 30 GB of flight delay and weather data scraped using Python, Selenium and BeautifulSoup.

Eye Disease Classifier | *Python, Colab, TensorFlow, Keras* — Oct 2023
- Model to classify eyes based on condition built using ML algorithms. Developed on Colab using public datasets.
- Keras CNN model with EfficientNetB3 model pre-trained on ImageNet data used for training. Global average pooling layer used to reduce spatial dimensionality, ReLU activation for feature extraction and softmax activation for producing probabilities. Model compiled using a Adam optimizer and returns an accuracy of *89%*.

TECHNICAL SKILLS

Languages: Golang, Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Flask, Micronaut, Springboot, Gin
Developer Tools: Git, Docker, Google Cloud Platform, AWS, VS Code, R Studio, Jupyter, Colab, VSCode
Libraries: hibernate, jUnit, log4j, mockito, SciPy, OpenCV, scikit-learn, pandas, NumPy, Matplotlib, BeautifulSoup, pytorch, sklearn, selenium