

# Maneesh Gonegary

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## EDUCATION

### State University of New York at Stony Brook

*Master of Sciences in Computer Science*

Stony Brook, NY

Aug. 2023 - May 2025

### Birla Institute of Technology and Sciences

*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

- 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, gRPC, RabbitMQ

- 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

- 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 APIs | *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 the *streamlit* framework. *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.

### Rust NES Emulator | *Rust, SDL2*

Dec 2022

- Leveraged Rust and SDL2 to build and run an emulator for the NES(Nintendo Emulator System). Currently supports first-gen static screen games like Donkey Kong and Pac-Man.
- Programmed using Rust and audio/video/input processed using SDL2.

### 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, Rust

**Frameworks:** React, Node.js, Flask, Micronaut, Springboot, Gin

**Developer Tools:** Git, Docker, Kubernetes, AWS, VS Code, R Studio, Colab, Kafka, Airflow, Spark

**Libraries:** hibernate, junit, log4j, mockito, SciPy, OpenCV, scikit-learn, pandas, NumPy, Matplotlib, BeautifulSoup, pytorch, sklearn, selenium