

Manuel Hinke

Bachelor of Science (Honours)
University of St Andrews, St Andrews

+52 55 3411 1038
✉ manuel@hinkesoto.com
in manuel-hinke

EXPERIENCE

• Software Engineer II

February 2024 - Current

Global Payments Inc.

- Implemented Java Spring Boot microservices to process card loyalty points transactions for the Mexico merchant market.
- Developed new Apigee Edge proxies and shared flows to support loyalty point transactions.
- Wrote functional test cases using JUnit and Mockito.
- Worked within a team of nine and acted as a interpreter between the Mexico and international teams.

• Data Engineer and Analyst

May 2023 - September 2023

Brand Development Mexico

- Spearheaded the conceptualization and implementation of an internal visual analytics tool used by 33 employees and stakeholders.
- Normalized the primary MySQL database, eliminating data redundancy and improving data integrity.
- Improved the ETL pipeline, enhancing workflow and reducing latency by 1 second on average.

EDUCATION

• Bachelor of Science (Honours) Computer Science

2019-23

University of St Andrews, St Andrews

- Dissertation centered on advanced techniques in clothes image segmentation, resulting in enhanced efficiency and precision of Mask R-CNN and Cascade R-CNN for retail and advertising applications.

PERSONAL PROJECTS

• Academic Journal for Papers with Code

Website based academic journal with support for executing code based academic papers.

- Implemented frontend and backend features in the journal to enable researchers to directly publish runnable code files for various programming languages, addressing the limitations of traditional research publication for code heavy research.
- Technology Used: JavaScript, React, Java.

• Option Pricing Models

Web app for calculating option prices.

- Implemented the following pricing models: Black-Scholes model, Monte Carlo simulation, Binomial model.
- Data is fetched from Yahoo Finance API using pandas-datareader, it is cached with request-cache library to an SQLite database
- Technology Used: Python, Google Cloud Platform, Docker, Yahoo Finance API, SQLite.

• COVID-19 Tracker

Daily and weekly updated statistics tracking the number of COVID-19 cases, recovered, and deaths.

- Tracking world-wide cases using Google Maps and live API stats and datasets.
- Technology Used : JavaScript, CSS, HTML, API, Python.

SKILLS

Languages: Java, Javascript, C/C++, Python, Go, Haskell

Frameworks: Spring Boot, Apigee, ReactJS, Next.js, Node.js

Machine Learning Frameworks: PyTorch, TensorFlow

Cloud/Databases: MongoDB, Firebase, MySQL, SQLite, PostgreSQL, AWS, GCP

Certifications: SAFe 6 Agilist, SAFe 6 Product Owner/Product Manager

Others: MS Office, Git, Github, Unix, LaTeX, PowerBI, Agile, Scrum, Jira, Rally

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Object Oriented Programming, Databases, Data Communications and Networks, Data Encoding, Artificial Intelligence.

POSITIONS OF RESPONSIBILITY

• President St Andrews Poker Society - St Andrews, UK

September 2022 - June 2023

- Organized weekly classes on ICM and GTO, attracting 10 - 30 students per class.
- Grew the society from 20 to 65 members.
- Managed and organized the alumni tournament which attracted over 100 alumni and current students.