Lim Yu Yang

+65 9633 6786 • limyuyang.98@gmail.com • https://github.com/IronBiscuit

WORK EXPERIENCES

Software Developer (Senior Officer) at UOB   **Jul 2023 – Present**
- **Dev-Ops:** Assist in various CI / CD pipelines, deploying Oracle databases as well as system monitoring and management.
- **Software Development:** Increased the robustness of current applications by developing software using SQL and SAS. Currently working on report generation that provides statistics on application users.
- **Process Automation:** Boosted efficiency of Dev-Ops processes by automating them with the development of Python Scripts

AI / ML Intern at Robert Bosch (South East Asia) Pte Ltd   **Dec 2021 – Jul 2022**
- **Model Training and Development:** Helped to create models used for object detection, which are applied in major waste sorting sites.
- **Hardware & Software Integration:** Aided in the integration of a variety of technologies, which are used simultaneously for accurate and reliable results.
- **Python Software Development:** Developed several Python programs that help to improve the efficiency and effectiveness of the software pipelines
- **Bottleneck Elimination:** Reduced software time and space complexities and increased device throughput by over three hundred percent.
- **Patenting:** Worked on novel invention reports
- **Dev-Ops / Version Control:** Set up a Git system and refactored code to better adhere to modern software engineering standards

Software Intern at Elixir Technology Pte Ltd   **May 2021 – Jul 2021**
- **Data Transformation:** Created extraction, cleansing, and data transformation processes through enterprise BI tools
- **Booking Portal:** Responsible for developing a flexible booking system for office facilities and spaces to allow for easy monitoring / enforcement of strict Covid-19 personnel capacity restrictions.
- **NoSQL Backend:** Handled NoSQL databases as well as experienced handling big data
- **BI & Data Visualization:** Developed competencies and best practices for business intelligence and created meaningful and purposeful dashboard visualizations
- **Machine Learning:** Worked on algorithms that made sense of data from thermal sensors in order to identify the position and pose of people in elderly care toilets using machine learning

EDUCATION

National University of Singapore   **Aug 2019 – July 2023**

Bachelor's Degree in Computer Science
- Majoring in Computer Science
- CAP Score: 4.04/5.0
- Specialized in Artificial Intelligence, Networking and Databases

PROJECTS / RELEVANT EXPERIENCES

AIxImpact Student Case Competition by QuantumBlack   **Dec 2021 – Feb 2022**
- Participated in the finance track and proposed methods to improve customer experience while protecting privacy using machine learning and AI.
- Achieved the finalist position

AI Programming with Python Nanodegree (Udacity)   **Aug 2021 – Oct 2021**
- Took up a course on Machine Learning which allowed me to learn about Convoluted Neural Networks, the mathematics behind gradient descent, as well as learning important Machine Learning Libraries such as Numpy, MatPlotLib, Pytorch and Tensorflow.
- As part of the project requirements, I developed a machine learning model that could identify flower species with more than 70% accuracy. The model involved the usages of optimizers and special probabilities to improve its performance such as negative log-likelihood.

Hack N Roll, Participant   **Jan 2020 – Jan 2020**
- Participated in the Hack-N-Roll 2020 Hackathon and developed a google extension that could translate all the HTML text on a website to Morse-Code.
- Programmed and designed the algorithms and database using JavaScript, as well as debugging of the software.

Orbital 2020, Participant   **May 2020 – July 2020**
- Participated in Orbital 2020 and developed an online multiplayer web game that is heavily inspired by classic mafia party games.
- Programmed the object collision, algorithms, socket communication and movement using EJS and Sockets.io, while using git to manage the project.
- Attained the Apollo 11 level, the 2nd highest achievable level of accomplishment.

SKILLS

Languages: Python, Java, JavaScript, SQL, HTML / CSS, C++
Tech-Stacks: Node.js, React.js, TensorFlow, Keras, PyTorch, Github, Bitbucket, Jira, Jenkins, Hadoop & Spark
Databases: MongoDB, Oracle, MySQL, PostgreSQL