

Alexy Hackmann

A highly motivated bachelor's degree student in her final year. An astute individual looking to leverage her technical skills to drive business solutions in real-world applications over the course of a full-time role.

Expected graduation: May 2023

Contact Details:

-  alexy001@e.ntu.edu.sg
-  <https://meowster99.github.io/>

Technical Skills:

- Python (main development language)
- Web Development (Django, HTML5, JavaScript, jQuery, CSS)
- Database (Postgres & SQL Server)
- Deployment using Heroku
- Java
- App Development (Flutter)
- UX and UI Design

Soft Skills:

- Strategy & Planning
- Excellent Adaptability
- Problem and Data Sensitivity
- Quick Learner
- Problem Solver

Awards:

- CCA Award for Individual Sporting Excellence
Nanyang Junior College
- CCA Award for Team Sporting Excellence
Nanyang Junior College
- SMC Scholarship for Academic Excellence
St Margaret's Secondary School
- SMC Scholarship for Top-in-Cohort
St Margaret's Secondary School

Education

Nanyang Technological University Aug 2019 – May 2023
Bachelor of Science in Mathematical and Computer Sciences
Course: Data Science and Artificial Intelligence, Penultimate Year

- Honours (Highest Distinction)
- Relevant Modules: Software Engineering, Database System Principles, Object-Oriented Programming, Developing Data Products

Nanyang Junior College

'A'-Level Examinations

- Achieved distinctions in Mathematics, Chemistry, Physics, General Paper, and Project Work
- Top 5% of graduating cohort based on rank points

Work Experience

Software Engineering & Data Science Intern Jan 2022 – May 2022
Seagate Singapore International Headquarters Pte. Ltd.

- Built full-stack web applications with Django back-end involving self-tuning Machine Learning (ML) Algorithms to streamline fault detection for Failure Analysis Engineers.
- Implemented five unsupervised anomaly detection algorithms to detect anomalous hard drives based on serial data. Built the entire data pipeline into dynamic web-based application to catch possible abnormal drives during the test process to increase time savings of diagnostic analysis by up to 80%.
- Involved in presentations to upper-management and other stakeholders to drive home the importance of software developments in increasing efficiency of the engineering process.

Notable Achievements

Carro X AWS Hackathon 2022

- Achieved 3rd placing out of >80 teams for our exceptional solutions in Time-Series Regression Analysis and Acoustic Engineering Problem Statements.

Top Academic Projects

NTU Research Profiles Dashboard using Plotly-Dash 2022

- Built a Data Product using plotly-dash (python library) to analyze professor's in NTU's School of Computer Science and Engineering to facilitate an understanding of the research standard in NTU.

Singapore Economic Tracker Application 2022

- Developed a multi-page web application to track and predict trends in prices of goods & services in Singapore, as well as correlate historical price changes to events in the news.
- A three-part data pipeline was built to scrape, preprocess and then analysis the textual data. Various algorithms were applied, such as VADER for sentiment analysis, and anomaly detection and changepoint detection analysis for the time series data.

UniverCities – a mobile platform for students to explore university courses 2021

- In a team of four - developed an interactive mobile application using Dart and Flutter to streamline user experience when searching for and choosing their future university course.

Leadership & Volunteer Experience

Committee Member 2020-2021
Peer Helping Programme

- Underwent training to gain foundational knowledge of common mental health issues, and to be able to identify and reach out to students at risk.