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 part-time internship**.

Expected graduation: May 2023

CONTACT DETAILS:

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🌐 https://meowster99.github.io/

TECHICAL SKILLS:

- Python (main development language)
- Web Development (Django, HTML5, JS, CSS)
- Database (Postgres & SQL Server)
- R
- MATLAB
- C
- Java
- App Development (Dart & Flutter)
- UX and UI Design

SOFT SKILLS:

- Strategy & Planning
- Excellent Adaptability
- Problem Sensitivity
- Quick learner

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, Algorithms

Nanyang Junior College
'A'-Level Examinations
- Achieved distinctions in Mathematics, Chemistry, Physics, General Paper, and Project Work
- Top 10% of graduating cohort based on rank points

WORK EXPERIENCE

Software Engineering & Data Science Intern — Jan 2022 – 27 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.
- Learnt and applied HTML5 and JavaScript (jQuery) to build functional & responsive webpages.
- Implemented five unsupervised anomaly detection algorithms to detect anomalous hard drives based on serial data. Built algorithms into dynamic website to catch possible abnormal drives during the test process.
- Designed and established a pipeline for clustering datasets with >14M datapoints to help detect patterns in hard-drive failures based on customer and drive workload.
- Involved in presentations to upper-management and other stakeholders.

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.

ACADEMIC PROJECTS

UniverCities – a mobile platform for students to explore university courses — 2021
- Developed a mobile application using Dart and Flutter in a team of four. Applied our knowledge of Software Engineering and Architecture over the span of 3 months to create an interactive mobile application that allows students to view, compare, and choose their future course in a Singapore university.

Contact Tracing Database Implementation — 2021
- Designed a database in SQL to simulate a database storing contact tracing information. Used triggers to manage insertion and deletion updates across connected tables.

Java Console-based Application for Course Registration System — 2020
- Modelled, designed, and developed an OO Application with Java that mimicked NTU's course registration system.

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.