

ANDERSON LEONG

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Available for Full-Time **internships** from December 2023 to June 2024
Available for Full-Time **employment** from June 2024 onwards

EDUCATION

National University of Singapore	Aug 2020 – Jul 2024
Bachelor of Engineering (Computer Engineering)	
<ul style="list-style-type: none">Awarded ASEAN Undergraduate Merit Scholarship (Full coverage with allowance)	
Uppsala University	Jan 2023 – Jun 2023
Student Exchange Programme	
<ul style="list-style-type: none">Courses: Cryptology, Parallel Distributed Systems, Internet of Things	

WORK EXPERIENCE

NXP Semiconductors	May 2022 – Dec 2022
<i>Product Engineering Intern – Python, Pandas, Tensorflow, IronPython</i>	
<ul style="list-style-type: none">Utilized Convolutional Neural Network to classify graphs based on shape with over 90% accuracyExperimented with Generative Adversarial Network models to create unique new graphs similar to inputDeveloped GUI to quickly export several gigabytes of labelled semiconductor data from TIBCO Spotfire	

CO-CURRICULAR ACTIVITIES

Residential College 4 House Committee	May 2021 – May 2022
<i>Executive Committee – Head of House</i>	
<ul style="list-style-type: none">Directed a committee of 25 people to plan and execute events and welfare for over 100 residentsPartnered with the College Students' Committee to assist in college-wide events of over 400 participantsAchieved 94.2% approval ratings among 120 voters during elections	
National University of Singapore Student Union Student Life Fair	Jan 2021 – Oct 2021
<i>Executive – Marketing Executive</i>	
<ul style="list-style-type: none">Negotiated with at least 15 companies on sponsorship matters for the eventSecured over \$150,000 worth of products for giveaway goodie bags for the eventFacilitated the virtual event with a strong outreach totalling 7,596 visitors	

PROJECTS

Data Structures and Algorithm III (Uppsala)	Jan 2023 – Mar 2023
<i>Student – Python, Bash Scripting, C++, SMT-Lib, MIP, SAT Solvers</i>	
<ul style="list-style-type: none">Created an MIP model that searches through 2×10^{17} possibilities to arrive at optimal answer in 5 minutesScripted Python parsers for SAT encodings that solves over 30000 cases in under 5 minutesImplemented Stochastic Local Search for Investment Basket problem to get (sub)optimal solutions fast	
Vigenère Cipher (Uppsala)	Jan 2023 – Feb 2023
<i>Student – Python</i>	
<ul style="list-style-type: none">Visualised frequency charts of Swedish text and characters to the encryptions with PythonFormulated a mathematical way to successfully guess with more than 95% accuracy of keys from other teams	
CG4002 Capstone Laser Tag	Aug 2022 – Nov 2022
<i>Machine Learning Component – Python, Pandas, Scipy, Tensorflow, Xilinx</i>	
<ul style="list-style-type: none">Helmed a team of 5 students to create a 2-Player Augmented Reality laser tagDeployed a Convolutional Neural Network using TensorFlow for integration achieving above 95% validationAchieved 99% expected result match during accelerator integration using Xilinx and C++Undertook responsibility of Game Engine and server communications to achieve 39/40 correct predictions	

HACKATHONS

Shopee Product Design 2020, Shopee Code League 2021 & 2022, NUS DSC 2021, Carro x AWS Hackathon 2022

ADDITIONAL INFORMATION

- Languages* : English (Advanced), Mandarin (Advanced), Malay (Basic)
- Technologies* : Python, C, C++, Java, SQL, JavaScript, React.js, Verilog