

ANDERSON LEONG

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Available for **Full-Time** employment from **July 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

d.Construct Robotics	Jan 2024 – June 2024
Assistant Software Engineer – C++, Typescript, Solid.js, WebAssembly	
<ul style="list-style-type: none">Designed and implemented the frontend UI for a webappImplement new features for the webapp using C++, wasm, and typescript to achieve near native performance	
NXP Semiconductors	May 2022 – Dec 2022
Product Engineering Intern – Python, Pandas, Tensorflow, IronPython	
<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 realistic synthetic data on AWS cloudDeveloped GUI to export 150 gigabytes of labelled semiconductor data from TIBCO Spotfire within minutes	

CO-CURRICULA EXPERIENCE

Residential College 4 House Committee	May 2021 – May 2022
Executive Committee – Head of House	
<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 participantsAttained 94.2% approval ratings among 120 voters during elections	
National University of Singapore Student Union Student Life Fair	Jan 2021 – Oct 2021
Executive – Marketing Executive	
<ul style="list-style-type: none">Negotiated with at least 15 companies on sponsorship mattersSecured over \$150,000 worth of products for give-away goodie bagsFacilitated virtual event with a strong outreach totalling 7,596 visitors	

ACADEMIC PROJECTS

Data Structures and Algorithm III (Uppsala)	Jan 2023 – Mar 2023
Student – Python, Bash Scripting, C++, SMT-Lib, MIP, SAT Solvers	
<ul style="list-style-type: none">Constructed an MIP model that sieves 2×10^{17} possibilities to arrive at optimal answer within 5 minutesScripted Python parsers for SAT encodings to solve 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
Student – Python	
<ul style="list-style-type: none">Visualised frequency charts of 29 Swedish text and characters to encryptions with PythonFormulated a mathematical way to guess with more than 95% accuracy of keys from other teams	
CG4002 Capstone Laser Tag	Aug 2022 – Nov 2022
Machine Learning Component – Python, Pandas, Scipy, Tensorflow, Xilinx, C++	
<ul style="list-style-type: none">Coordinated a team of 5 students to create a 2-Player Augmented Reality laser tagDeployed a Convolutional Neural Network using TensorFlow accomplishing above 95% validationAchieved 99% expected result match during accelerator integration using Xilinx and C++Undertook responsibility of Game Engine and server communications to successfully predict 39/40 actions	

ADDITIONAL INFORMATION

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