ALEXANDER LISWANDY

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EXECUTIVE SUMMARY

Detail-oriented and self-driven Computer Science student with 4 years of experience in developing websites and web applications. Developed applications and contributed to numerous projects that have benefited hundreds of users, both independently and as part of a team. My technical proficiencies include Python, Flask, JavaScript, HTML and CSS, with experience in React, C++, SQL and MongoDB. Additionally, skilled in PC and keyboard building and soldering. I have a keen attention to detail and a drive to continually enhance and expand my programming skillset and stay up to date with popular industry-standard frameworks.

EDUCATION

National University of Singapore, Singapore Bachelor of Computing in Computer Science

Aug 2023 Matriculation

Dunman High School, Singapore

2015 to 2020

- GCE A-Level H2 Computing, Mathematics and Physics Distinction
- Top in school level for H2 Computing in 2019
- Awardee of Edusave Certificate of Academic Achievement 2020 and Edusave Award for Achievement, Good Leadership and Service (EAGLES) 2020

ACADEMIC PROJECTS AND ACHIEVEMENTS

BuildingBloCS, Singapore

Games Organising Committee Lead

Nov 2019 to May 2020

- Singapore's **largest outreach programme** for students, by students, aimed at promoting more exposure to Computing and Computer Science as a whole for Secondary School, JC and IP students, supported by various partners like Ministry of Education and Google.
- Spearheaded a team of JC Computing students from all across Singapore in developing The Amazing Race, a Flask and JavaScript based web application game entirely from scratch that introduces basic core programming concepts to participants. Designed the front-end UI using HTML, CSS and JavaScript and handled the back-end processing using Python, MySQL and JavaScript.
- Collaborated with other committee leads to host its largest annual Computing and Computer Science outreach conference with over 200 student attendees across Singapore.
- Generated and adapted game ideas meant for a live conference into digital form due to the COVID-19 situation.

Link(s): https://github.com/Airiinnn/amazing-race

FOSSASIA Summit Web Development with Flask Workshop Instructor

Mar 2020

- Independently prepared and conducted a workshop about getting started with web development using the Flask framework together with Jinja, HTML and CSS at Asia's premier developer event exhibition and conference, supported by partners such as Lifelong Learning Institute, Google and Facebook.
- Leveraged proficiency in the **Flask** framework gained through previous school based projects and external hackathons like developing Dunman App in collaboration with the Student Council which was designed to streamline announcements and information flow from school staff to students.
- Attended by over 70 participants combined across the live event and live stream.

Link(s): https://qithub.com/Airiinnn/flaskworkshop2020

National Olympiad in Informatics, Singapore Bronze Award

Apr 2020

- Completed over 100 competitive programming problem sets in C++ on HackerRank's ProjectEuler+ and dunjudge.me
 to prepare for the competition.
- Participated in multiple other competitive programming competitions like Google Kick Start and Code Jam to further deepen my knowledge in algorithms and data structures and proficiency in C++.

WORK EXPERIENCE

NM Dev Technical Content Writer Intern

2021

- Contributed to the creation of the Introduction to Data Science course for NM Dev, a high performance, object-oriented programming library of mathematics, by writing the Basic Statistics chapter. Mentored by co-founder of NM LTD and Fudan and Ex-National University of Singapore Professor, Dr Haksun Li.
- Explained and simplified basic statistical concept, aimed at High School students (and their equivalents).

• Related the NM Dev library functions to their corresponding statistical concepts through sample code in Kotlin.

Link(s): https://nm.education/courses/introduction-to-data-science/lessons/basic-statistics/

PERSONAL PROJECTS

Proiect Navex

2022 to Present

Navigational Data Sheet (NDS) Generator Web Application

- Developed a JavaScript based web application entirely from scratch using HTML, CSS, Google Maps API and EPSG API to tackle a problem identified during my time in National Service.
- Automates tedious and repetitive tasks during NDS creation, reducing the time required to create one by up to 75%.
- Extended the usage of the tool to all other NSFs through advertising, garnering a peak of over 500 uses per day.

Link(s): https://projectnavex.com/ | <a href="https://projectnavex/project-navex/projectnavex/project-navex/projectnavex/

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2023 to Present

Personal Programming Portfolio Website

- Designed and developed a programming portfolio for myself using React.
- Paid special attention to UIUX considerations while designing the website.
- Ensured website is compatible on common devices through the use of a responsive web design.

Link(s): https://alex.lis.fyi/ | https://aithub.com/Airiinnn/lis

PC Building Experience

2021 to Present

Technical Experience with PCs

- Built 2 PCs from scratch without issues. Picked out, sourced and assembled the PCs independently.
- Experience in troubleshooting PC hardware issues, through methodical checks and tests.
- · Assisted multiple friends with choosing PC parts that suit their individual needs and budgets.

SKILLS

Programming Languages and Frameworks

C++, Python, Flask, JavaScript, React, HTML, CSS

Database Management

MySQL, SQLite, MongoDB

Miscellaneous

Git, Google Maps API, Raspberry Pi, Soldering, PC Building

OTHER INTERESTS

Puzzle Games
PC and Keyboard Building
Running & Cycling