ALEXANDER LISWANDY



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EXECUTIVE SUMMARY

Detail-oriented and driven Computer Science student with a robust 5-year track record in software development, in the capacity of an individual contributor and collaborative team member. Notable technical proficiencies include React with Redux in TypeScript for front-end development, Python's Flask and FastAPI frameworks, SQL and MongoDB for backend development and additionally programming in Java & C. Looking to expand my programming skill set to explore ways to create clean and well-designed solutions.

EDUCATION

National University of Singapore Bachelor of Computing in Computer Science

2023 to 2027

• 5.0 GPA

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

WORK EXPERIENCE

Neurowyzr Software Development Intern

Mar 2023 to Jul 2023

- Implemented comprehensive automation testing for mobile applications using Appium and Behave.
- Developed and maintained front-end React.js applications. Implemented new features, fixes and code refactoring, compliant with strict Content Security Policy (CSP) to enhance security.
- Contributed in developing organization's inaugural Python back-end services with FastAPI and developing an image processing service using Pillow.
- Independently developed an internal tool for application and service version tracking utilizing Google Apps Script, AWS Lambda & API Gateway.

NM Dev May 2021 to Oct 2021

Technical Content Writer Intern

- Contributed to the creation of the Introduction to Data Science course for NM Dev, a high performance, objectoriented programming library of mathematics, by writing the Basic Statistics chapter.
- Introduced basic statistical concepts in an engaging and simplified manner, aimed at High School students.
- 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

Planner++ Personal Planner Application

Dec 2023 to Present

- Currently developing a streamlined planner app, inspired by the Kanban framework and task organization features on Notion, for personal task tracking.
- Front-end created with React.js, React Redux in TypeScript, utilizing libraries such as React Beautiful DnD.

Link(s): https://github.com/Airiinnn/plannerpp-app

Navigational Data Sheet (NDS) Generator Web Application

Dec 2022 to Feb 2023

- Developed a JavaScript based web application utilizing 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/ | https://github.com/projectnavex/project-navex

Personal Programming Portfolio Website

Feb 2023 to Jul 2023

- Designed and developed a programming portfolio for myself using React.js.
- 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://github.com/Airiinnn/lis

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 Python's 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://github.com/Airiinnn/flaskworkshop2020

National Olympiad in Informatics, Singapore Bronze Award

Apr 2020

- Completed over 100 competitive programming problem sets in C++ / Java / Python on LeetCode, 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 as a
 passion as well as to further deepen my knowledge in algorithms and data structures.

SKILLS

Programming Languages

TypeScript / JavaScript, Python, Java, C

Front-End Development

React.js, React Redux, TSX/JSX, HTML, CSS

Back-End Development

Flask, FastAPI

Database Management

MySQL, SQLite, MongoDB

Miscellaneous

Git, Linux, PC Building

OTHER INTERESTS

Puzzle Games
PC and Keyboard Building
Algorithms