

Audrey Felicio Anwar

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Education

National University of Singapore

YEAR 4 UNDERGRADUATE STUDENT, COMPUTER SCIENCE (HONOURS) WITH A MINOR IN MATHEMATICS

Singapore

Aug 2019 - Present

- Current CAP: 4.72 out of 5.
- Focus areas: Algorithms & Theory, Parallel Computing.

Work Experiences

Dynamic Technology Lab

C++ DEVELOPER INTERN

Singapore

May 2022 - Present

- Developed Refinitiv Robust Foundation API (RFA) market data feed handler using C++20 with latency and performance optimizations, improved more than 50 traders' data collection, and reduced Refinitiv data processing time by 95% through automated data collection, parsing, and filtering.
- Developed custom WebSocket client library using UNIX Socket and OpenSSL to receive market feed from Coinbase API using C++20 with latency and performance optimizations for high-frequency trading, helped data collection for more than 10 quantitative researchers, usage expected to be extended to other market data APIs.

ByteDance

FRONTEND ENGINEER INTERN

Singapore

May 2021 - Jul 2021

- Developed features, UI/UX enhancements, and critical bug fixes for an internal machine learning iteration platform that is used by more than 100 engineers, improving the platform's usability, user experience, and range of features.
- Developed an internal website to query and display video information and metadata from internal databases with a comparison view between multiple sources, improving workflow and efficiency of more than 100 engineers that used the data for model training and debugging.

National University of Singapore

UNDERGRADUATE TEACHING ASSISTANT

Singapore

Aug 2020 - Present

- Conducted weekly tutorial or lab sessions, enhanced students' understanding of lecture materials through tutorial or lab questions, and graded students' assignments.
- Modules taught: CS1231S Discrete Structures, CS2030S Programming Methodology II, CS2040S/C Data Structures and Algorithms, CS2103T Software Engineering, CS2109S Introduction to AI and Machine Learning, CS3230 Design and Analysis of Algorithms, CS4234 Optimisation Algorithms.
- Placed on honour list of student tutors for AY2020/2021 and achieved on average 4.6 out of 5 rating on teaching feedback conducted at the end of the semester.

Projects

Who's Who? (<https://whoswho-official.netlify.app/>)

SOFTWARE ENGINEER

- Built a real-time multiplayer game that facilitates ice breaker activities using React, Node.js, and Socket.IO.
- Worked on the authentication feature, frontend components, styling, and gameplay phases implementation.

NUS Scheduler (<https://nus-scheduler.netlify.app/>)

FULL STACK DEVELOPER

- Built a website using React.js and Django to help NUS Students schedule their timetable and plan events, especially NUS related events.
- Implemented features such as events scheduling and grouping, user authentication and customization, files and images upload, kanban task lists, NUSMods parser.

Technical Skills

Programming Languages C++, C, JavaScript, TypeScript, Python, Java, Swift, Proto3, Solidity, SQL, Ruby.

Software and Frameworks Git, Docker, React, Redux, AngularJS, Rails, PostgreSQL, GNU/Linux, Bazel, Boost C++.

Achievements & Awards

2021 **Contestant**, 2021 ICPC Asia Jakarta Regional Contest

Singapore (Online)

2019 **Top Quartile**, Simon Marais Mathematics Competition

Singapore

2018 **Silver Medal**, Indonesia National Mathematics Olympiad (IDN OSN)

Padang, Indonesia