

ERWIN QUEK

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EDUCATION

National University of Singapore (NUS)

Aug 2020 - Dec 2024

Bachelor of Computing Computer Science, Honours

- University Scholars' Programme (USP) / NUS College
- NUS Overseas College, Toronto (NOC)
- Computing coursework: Data Structures and Algorithms, Database Systems, Software Engineering
- Entrepreneurship coursework: Business of Software, Lean Startup, Start-up Case Study & Analysis

TECHNICAL SKILLS

- Programming Language: Python, Java, JavaScript, TypeScript, SQL, Solidity
- Software Framework: React, NestJS, NextJS, Flutter, Web3JS, Hardhat
- Cloud Computing: Amazon Web Service (AWS)
- Design Tool: Figma, Illustrator

WORK EXPERIENCE

Software Engineering Intern, Mavennet, Toronto, Ontario

Jan 2023 - Dec 2023

- Spearheaded the end-to-end development and successful of Grapes Finance's blockchain API, a pivotal component of the organization's financial infrastructure, enabling seamless integration with various financial institutions.
- Collaborated closely with stakeholders, translating business requirements into technical specifications, and actively participated in project planning and roadmap development, ensuring alignment with company goals.
- Developed and maintained features for a blockchain web application, employing React for the front-end and NestJS for the back-end.

Mobile Developer Intern, Endowus, Singapore

Aug 2022 - Dec 2022

- Implemented and enhanced frontend features using Flutter, including interactive user interfaces, navigation flows, and form validations, resulting in an intuitive and seamless user experience.
- Participated in agile development methodologies, including sprint planning, stand-ups, and retrospectives, to ensure efficient project management and successful on-time delivery.

Quality Assurance Engineering Intern, Endowus, Singapore

May 2022 - Jul 2022

- Conceptualised an independent project to explore how to optimise existing test runs on CircleCi, and managed to reduce credits consumed by ~50%.
- Executed comprehensive test plans, ensuring thorough testing of new releases on web and mobile applications, identified critical issues, resulting ~50% efficiency in testing process.

PROJECTS

Team Lead, Hack The North 2023, Toronto, Waterloo

Sep 2023

- Led the development team in the implementation of a NFT marketplace aimed at digitizing tangible assets on the Polygon blockchain. This involved deploying smart contracts through the utilization of the Thirdweb API.
- Achieved recognition and excellence by clinching the EthGlobal Ethereum Top Prize at Hack the North, showcasing innovation and technical prowess in the blockchain space.

Full-Stack Developer, EthWaterloo Hackathon, Toronto, Waterloo

Jul 2023

- Partnered with four team-mates to develop a web3 freelance service marketplace, integrating advanced technologies such as Sismo for credibility verification, The Graph's subgraphs for real-time data querying, and Ethereum Attestation for validating work experience claims.

- Accomplished notable recognition, winning bounties for Best Privacy Vibe and Best New Subgraph, showcasing excellence in privacy features, data querying.

Business Development, RAIVEN, Toronto, Ontario

Jan 2023 - Apr 2023

- Engaged in business-oriented tasks for a prospective computer vision startup idea, encompassing requirement elicitation, product feature development, market validation, competitor analysis, and financial projections.

Team Lead, NUS Computing Lifehack 2022, Singapore

Jul 2022

- Led a team of two team-mates in the development of a Python-based Telegram bot capable of hiding and encrypting messages within images.
- Assigned tasks and coordinated the project, resulting in an Honourable Mention (Top 5) recognition in the Security Theme category.

Backend Developer, Intelligent Tutoring System, Singapore

Jan 2022 - Apr 2022

- Collaborated with three project mates to construct a Control Flow Graph Alignment Java module. Module efficiently generates a mapping between two program objects, aiding in program analysis.
- Designed significant aspects of test suite, resulting in an impressive line and statement coverage of approximately 97%.

Software Developer, My Study Buddy, Singapore

Jun 2021 - Aug 2021

- Teamed up with a partner to devise a web application using the Python-Django web framework, aiming to develop a learning and social platform for NUS students to foster connections.
- Utilized Python and Django, along with SQLite for backend, and leveraged Google Cloud Storage and Amazon S3 for storage, deployment on Heroku.

CO-CURRICULAR ACTIVITIES

Backend Lead, NUS Google Developer Student Clubs, Singapore

Aug 2022 - Aug 2023

- Introduced Scrum Agile software development practices to increase development productivity; improved code output volume, reducing implementation windows.
- Proposed a micro-service backend architecture for a food donation platform, optimizing scalability, modularity, and efficiency.
- Introduced the "Random-Coffee" Slack bot, a tool designed to facilitate 1-1 meetups and encourage team members to bond and collaborate on projects, thereby fostering team chemistry.

Peer Mentor, USP Mentorship Programme, Singapore

Aug 2021 - Jul 2022

- Communicated and conveyed important academic and curriculum information to two freshmen accelerating smooth transition into university life.
- Initiated frequent check-ins and catch-up sessions with mentees, building a safe and welcoming space to discuss current experiences, challenges, and overall well-being in university environment.

Vice House Captain, University Scholar's Club, Singapore

Sep 2020 - Jul 2021

- Partnered closely with a committee of three members to organize and facilitate a series of cohesion events for members within same house system.
- Facilitated virtual freshman orientation activities during the COVID-19 pandemic, utilizing Zoom to devise engaging and interactive experiences, fostered social bonding and a sense of community.