

Daniel TAN

☎ (+65) 8498-6799 | ✉ danieltanjiawang@gmail.com | 🏠 daniel-tjw.com | 📷 crimsonjacket | 🌐 danieltanjw | 📧 danieltanjiawang

Education

NUS(National University of Singapore)

B.COMP IN COMPUTER SCIENCE

- NUS Overseas College - Silicon Valley - Batch 36
- Specialization: Software Engineering & Computer Security

Singapore

Aug. 2017 - Exp. May. 2021

International Summer/Winter Programme (i-SP), Korea University

KOREA UNIVERSITY, INTERNATIONAL WINTER CAMPUS(IWC)

Seoul, South Korea

Dec. 2018 - Jan. 2019

Singapore Polytechnic

DIPLOMA IN INFOCOMM SECURITY MANAGEMENT

- Cumulative GPA: 3.916/4.0
- Diploma+ Programme: Certificate in Business

Singapore

Apr. 2012 - May. 2015

Work Experience

CoinAlpha Inc.

SOFTWARE DEVELOPER INTERN - BACKEND

- Integrate Crypto Exchange APIs into Hummingbot, an open-source trading bot client. Subsequently, organized and detailed a comprehensive developer documentation guide for community developers to contribute to the trading bot.
- Using Grafana, implement an internal dashboard to aid engineering team in monitoring various metrics on the available bounty programmes in the Liquidity Mining Platform.
- Design and build a prototype data fetcher instrumental in improving the stability and scalability of the Liquidity Mining Platform. Key technologies involved, Kubernetes, Docker, Apache Kafka.

San Francisco Bay Area, U.S.

Aug. 2019 - Aug. 2020

Mobbin Designs

SOFTWARE DEVELOPER INTERN - FRONTEND

- Implemented various interactive UI components using React-Typescript. Styling is done using styled-components, flexbox and react-pose.
- Additionally, through the usage of Styleguidist, documented the respective React components for future developments and/or alterations.

Singapore

May. 2019 - Jul. 2019

A* Institute of Infocomm Research(i2R)

SOFTWARE DEVELOPER

- Integrated proprietary ciphers into open-sourced libraries, OpenSSL, and subsequently performed a performance comparison test on the proprietary ciphers with already available ciphers.
- Devised and conducted intercontinental data transmission performance testing on custom ciphers through the usage of Google Cloud Platform and open-source VPN Servers and Clients nodes.

Singapore

Feb. 2015 - Jul. 2015

A* Institute of Infocomm Research(i2R)

INTERN - SOFTWARE DEVELOPER

- Initiated the development of an Android Malware Analysis Tool using an interactive multi-processor disassembler and an open-source reverse engineering tool.
- Collaborated with fellow lab interns in the production of the analysis tool with structured version control methodology and Software Engineering Design Patterns.
- Analyzed and compared effectiveness of the proprietary tool and existing mobile security application in the detection of malicious behaviour in available mobile applications in the primary and secondary marketplaces and observed a 12% increase in detection rate.

Singapore

Sep. 2014 - Feb. 2015

Technologies

Programming

Python · Java · C · NodeJS · PostgreSQL · MySQL · MongoDB

Web Development

HTML5/CSS/Javascript · NodeJS · React · TypeScript · Bootstrap · Django · Express

DevOps

Git/GitHub · Kubernetes · Docker · AWS · Google Cloud Platform · Jenkins