

# KENNETH SIM JIAN HUI

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Software Engineer with a specialization in blockchain, cybersecurity, and experience in building scalable technology for the Cloud.

## EXPERIENCE

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### Associate Cybersecurity Specialist (Software Engineer), GovTech Singapore

Apr 2021 – Now

Developed Webmon, an internal government web application made to aid in the monitoring and response of cybersecurity attacks in a team of 6 as a backend engineer

- Handled sprint planning, task creation and maintenance of code quality and documentation
- Spearheaded Jira ticketing system in branches and commits to easier track and resolve issues
- Created custom defacement scanning algorithms functioning on AWS Lambda and Step Functions to detect and protect government websites, scanning a single site in <10 seconds
- Led overhaul of Webmon's code(from Flask to Django) and infrastructure(deeper integration with AWS) achieving higher levels of scalability, maintainability and developer productivity
- Used Docker Compose to create a customized and easy to use containerized developer environment

### Product Engineer, Cynopsis Solutions Pte. Ltd.

Sep 2020 – Apr 2021

Worked on maintenance and upgrading of Artermis, a Know Your Customer(KYC) web platform that is used by major banks, e-commerce and cryptocurrency companies as a co-product owner and backend engineer

- Worked with more than 20 clients from major financial institutions on deals each worth > \$100k
- Managed and coordinated external vendors to ensure that the project is on track to completion
- Studied different clients' network and security needs, designing and modifying Artemis so that it meets their specifications
- Handled day-to-day development of backend(Flask) and production database(PostgreSQL)
- Maintained and upkeep of AWS infrastructure, including ECS, SQS and SES for running of business operations

## PROJECTS

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### Co-Founder/Developer, Kitty Party – [kittyparty.finance](https://kittyparty.finance)

Apr 2021 – Now

Co-founded DAO DeFi project using NFTs as a governance token, built on both the Ethereum and Polygon blockchains to provide a decentralized ROSCA system

- Winner of the Polygon Runner Up Prize in Chainlink Virtual Hackathon Spring 2021
- Assisting in talks with different cryptocurrencies/blockchains for project funding
- Wrote the original Smart Contract code in Solidity
- Created the NFT image generation script using OpenCV

### Solo Developer, [kensim.dev](https://kensim.dev) Custom CI/CD – [kensim.dev/website\\_infrastructure](https://kensim.dev/website_infrastructure)

Jun 2021 – Aug 2021

Created a custom CI/CD pipeline to host multiple websites on a single VM, designed to be cheap and easy to maintain

- Built a custom CI/CD pipeline using Nginx Docker, Flask, GitHub Webhooks and GCP Cloud Build
- Designed architecture to host multiple websites given personal limitation of using Google Cloud Platform's free tier
- Created a custom Telegram bot to notify the user of the status of the pipeline

### Software Lead, The Cog Effect – [capstone2020.sutd.edu.sg](https://capstone2020.sutd.edu.sg)

Jan 2020 – Aug 2020

Designed and developed a cognitive rehabilitation platform

- Led team of 3 Software Engineers in a team of 6 with task planning and client communication
- Coordinated and architected a multi-platform project consisting of a Unity iOS app, Vue.js web app, Arduino + Bluetooth hardware, Django backend and PostgreSQL database
- Single-handedly created the web application, backend and Arduino portions of the application and handled GCP deployment

## EDUCATION

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### Singapore University of Technology and Design

May 2017 – Sep 2020

- Bachelor of Engineering (Information Systems Technology and Design), Honours with Distinction
- SBF Foundation-SUTD Scholar - awarded to 4 students a year
- Specialization Track: Cybersecurity

- KKH Global Exchange Award recipient
- Asian Leadership Programme sponsorship recipient – awarded to only 10% of the cohort a year
- Led a team of 5 students to create a facial and emotional recognition Augmented Reality application for the Microsoft HoloLens using Azure and Unity

## **SKILLS & CERTIFICATION**

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- Certified Ethical Hacker (CEHv10) certification
- AWS Certified Solutions Architect – Associate certification
- Language: Python, Bash, Solidity, SQL, Javascript, HTML/CSS, Java, C, C#
- Framework/Platform: Django, Flask, Docker, Git, Android, Unity, Vue.js, React.js, Arduino, RaspPi, Linux
- Cloud Services: AWS, GCP, Azure, IBM Cloud