

KENNETH SIM JIAN HUI

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Software Engineer with 2 years of professional experience working on Python backend and AWS Cloud. Handled production systems with SDLC experience. Works on several side projects in free time.

EXPERIENCE

Associate Cybersecurity Specialist (Software Engineer), GovTech Singapore

Apr 2021 – Now

Product owner/backend developer for an internal web app made to actively scan the web, detecting phishing websites, in an Agile team of 4

- Designed and developed fully serverless architecture on AWS Lambda (Python), DynamoDB, Cognito, and SQS
- Carried out interviews with users to understand use cases
- Worked with UI/UX developer to craft the user experience
- Led inter-government agency communications to facilitate code collaboration

Planned, developed, tested and maintained the backend of an internal web application (Django/Lambda) made to aid in the monitoring and response of cybersecurity attacks of >5000 websites, in an Agile team of 6

- 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 the existing code base and infrastructure from POC to Production achieving higher levels of scalability, maintainability and developer productivity
- Created multiple custom automation scripts/environments to aid in the team's development i.e. docker-compose, pre-commit unit testing and linting, custom Lambda hot-reloading solution and code templates

Associate Software Engineer, Cynopsis Solutions Pte. Ltd.

Sep 2020 – Apr 2021

Maintained and developed new features for Artemis, a Know Your Customer (KYC) SAAS used by major banks, e-commerce and cryptocurrency companies as a co-product owner and backend developer

- Worked with more than 20 clients from major financial institutions on deals each worth > SGD\$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
- Maintained AWS infrastructure, including ECS, SQS and SES for running of business operations

PROJECTS

Tech Mentor, SAGE – sagexperiences.com

Aug 2021 – Now

Mentor a student startup based in SUTD that focuses on professional networking

- Guide the tech team on scaling up their current application, application security, and best developer practices to ensure code maintainability
- Stood in as Tech Lead for 2 months while the team was undergoing transition, managing project direction and task allocation
- Finalist in Create4Good Challenge 2021

Co-Founder/Developer, Kitty Party – 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
- Assisted in talks with Polygon and Chainlink, successfully gaining USD\$10k project funding
- Wrote the original Smart Contract code in Solidity
- Created the NFT image generation script using OpenCV

Software Lead, The Cog Effect – capstone2020.sutd.edu.sg

Jan 2020 – Aug 2020

Designed and developed a cognitive rehabilitation platform

- Led a 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 as well as handled GCP deployment

EDUCATION

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

ZheJiang University (Overseas Exchange)

May 2017 – Sep 2020

- 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

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