KENNETH SIM JIAN HUI

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With 3 years of full stack experience, AWS Cloud deployment, and SDLC knowledge, I'm a self-motivated Software Engineer who enjoys collaborating with other passionate individuals and constantly expanding my skill set.

EXPERIENCE

Full Stack Cybersecurity Software Engineer, ByteDance   Oct 2023 – Now

- Owned and operated within a cross-functional team responsible for signing Android applications for over 100 internal development teams
- Part of the development and ongoing maintenance of a Java Gradle Plugin alongside a web application utilizing the Go programming language and React.js framework
- Led the development of an onboarding pipeline leveraging FaaS (Function-as-a-Service) and Kafka messaging system, integrating with internal project creation tools, resulting in a seamless user onboarding experience
- Led research and development of Huawei's HarmonyOS App signing pipeline, is currently being utilized by larger product teams and scheduled for company-wide rollout, enhancing app signing efficiency across the organization

Backend Cybersecurity Software Engineer, GovTech Singapore   Apr 2021 – Sep 2023

- Led a cross-government team of 5 engineers from GovTech and HTX to rapidly operationalize a Django, MongoDB, Redis and AWS-based web application for combating scam sites in just 1 month, resulting in a 200% reduction in the time needed to analyze scam cases
- Coordinated with cross-functional teams across the government, including project managers, software developers and machine learning engineers to integrate with our scam case platform
- Designed and implemented a scalable machine learning pipeline on AWS Lambda, Step Functions, DynamoDB, Cognito, SQS, ECS, and S3, capable of scanning and categorizing over 1 million webpages per day
- Created a custom website defacement scanning algorithm that detects and protects the all government webpages (5k+) from attacks, scanning a single site in under 10 seconds using Python, AWS Lambda, Step Functions, and S3
- Built custom automation scripts and environments, including docker-compose, pre-commit unit testing and linting, a custom Lambda hot-reloading solution, and code templates, increasing the team's development velocity by 30%

Associate Software Engineer, Cynopsis Solutions Pte. Ltd.   Sep 2020 – Apr 2021

- Backend software engineer on a Know Your Customer (KYC) FinTech SAAS built on Django, Celery, used by major banks, e-commerce, and cryptocurrency companies
- Studied different clients' network and security needs and modified SAAS so that it meets their specifications when deploying to clients' local servers or cloud environments via AWS CloudFormation CDK

RELEVANT PROJECTS

Co-Founder/Developer, Kitty Party – kittyparty.finance   Apr 2021 – Apr 2022

- Co-founded and Developed a DAO DeFi cryptocurrency project using NFTs as a governance token, built on both the Ethereum and Polygon blockchains to provide a decentralized ROSCA system
- Wrote the Smart Contracts in Solidity, interfacing with Chainlink for randomization, Uniswap for liquidity pool staking
- Winner of the Polygon Runner-Up Prize in Chainlink Virtual Hackathon Spring 2021, gaining USD$10k

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

SKILLS & CERTIFICATIONS

- AWS Certified Solutions Architect – Professional certification, Certified Ethical Hacker (CEHv10) certification
- Programming Languages: Python, SQL, Javascript, Bash, HTML/CSS, Solidity, Java, C, C#
- Frameworks & Databases: Django, Flask, Vue.js, Android, Unity, .net, MySQL, PostgreSQL, DynamoDB, MongoDB
- Tools: Docker, Git, Linux, AWS (API Gateway, CF, CodeBuild/CodePipeline/CodeCommit), EC2, ECS, Lambda, RDS, S3, Step Functions)