

EDUCATION

National University of Singapore

B.Eng Computer Engineering (E-Scholars Programme) - 4.9 GPA

EXPERIENCE

Software Engineering Intern @ Binance

May 2025 - Present

Binance empowers users to trade, invest, and manage a cryptocurrencies seamlessly and securely on a global scale

- Interning under the Security team, working on enhancing and optimizing backend services

Founding Software Engineer @ *Check (Iterative W25)*

Feb. 2025 - Present

Check revolutionizes student learning through AI-driven active recall, syllabus accurate content, and smart analytics

- Engineered and launched over 5 novel features, driving a 40% surge in user retention and engagement
- Implemented client-side caching and lazy loading, reducing load times by over 80% and improving user experience
- Spearheaded migration of Next.js webapp to AWS, reducing costs by 30% and improving performance by 20%

Software Engineering Intern @ *London Stock Exchange Group (LSEG)*

Jun. 2024 – Dec. 2024

LSEG Labs addresses challenges in financial markets by assessing climate risks and simplifying ESG disclosure

- Utilized Infrastructure as Code (IaC) with Terraform to provision micro-services for a data ingestion pipeline, reducing provisioning times by 90% and maintaining idempotency across multiple development and test environments
- Designed and deployed infrastructure using AWS SNS for efficient Pub/Sub data-sharing between micro-services
- Led development of replay feature with Athena for event-driven architecture, accelerating disaster recovery by 80%
- Implemented CRUD module for managing granular data access permissions within a NoSQL database environment
- Set up key overloading in DynamoDB to decrease reliance on GSI for complex queries, cutting down costs by 60%
- Created test pipelines for cloud services, decreasing failed deployments by 10% and minimizing deployment errors
- Explored WASM SQLite with NoSQL backend, enabling complex analytics and cutting down backend calls by 40%

Software Engineering Intern @ *NodeFlair - Tech Career Platform for SEA*

Jan. 2024 – Jun. 2024

NodeFlair connects tech talents with job opportunities, optimizing the recruitment process for millions in SEA

- Enhanced and optimized the existing Ruby on Rails API to support large-scale, high-availability services and boost site performance and scalability for over 400,000 monthly users
- Maintained and upgraded functionalities of a Plasmo browser extension, facilitating smoother access to AI tools
- Leveraged parallel integration and e2e testing to achieve a 50% reduction in Continuous Integration (CI) test time
- Set up Docker images for development to mimic production environment, reducing on-boarding time by over 80%
- Utilized A/B tests on key landing pages for data-driven changes, boosting click-through rates by 18%
- Deployed programmatic SEO to automate creation of SEO-optimised pages, increasing organic traffic by 60%

PROJECTS / EXTRACURRICULARS

Insecure File Service | Simple file sharing service for public use - ifs.kenf.dev

Sep. 2024 - Present

- Developed a serverless file sharing service using AWS Lambda, CloudFront, and S3, managed with Terraform
- Adopted by over 50 users for sending files to public printers, eliminating the need for sign-ins on public machines

Linux Homelab | Repurposed laptop running Ubuntu Server for personal use

Feb. 2024 - Present

- Exposed to the internet via Cloudflare Tunnels and secured with Cloudflare Zero Trust for remote SSH access
- Utilised as a cloud compute platform to self-host backend services and GitHub runners - primarily used as a NAS
- Set up cron jobs to automate backups on AWS S3 Glacier for cost-efficient redundancy without reliance on RAID

AWARDS

NUS Hack&Roll '25 - Top 8 | **NUS-ISE Micron BACC '24 - 2nd Runner-up** | **Ground Zero '24 - Top 10**

SCS Splash Awards '23 - 1st | **SUTD WhatTheHack '23 - 1st** | **HTX HacX! '23 - 3rd** | **CloudHacks '23 - 1st**

TECHNICAL SKILLS

Languages: JavaScript, Python, Ruby, Java, C, C++, SQL, PostgreSQL, HTML/CSS

Frameworks: Next.js, React, React Native, Node.js, Spring Boot, Flask, Django, Ruby on Rails, Plasmo

Developer Tools: Git, Docker, AWS, Microsoft Azure, Google Cloud Platform, Firebase, Supabase, Neo4j

Libraries: NumPy, pandas, Matplotlib, TensorFlow, PyTorch, LangChain, ThreeJS