

EXPERIENCE

Software Engineering Intern @ <b>London Stock Exchange Group (LSEG)</b> LSEG Labs addresses challenges in financial markets by assessing climate risks and simplifying ESG disclosure	Jun. 2024 – Dec. 2024
<ul style="list-style-type: none"><li>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</li><li>Designed and deployed infrastructure using AWS SNS for efficient Pub/Sub data-sharing between micro-services</li><li>Led development of replay feature with Athena for event-driven architecture, accelerating disaster recovery by 80%</li><li>Implemented CRUD module for managing granular data access permissions within a NoSQL database environment</li><li>Set up key overloading in DynamoDB to decrease reliance on GSI for complex queries, cutting down costs by 60%</li><li>Created test pipelines for cloud services, decreasing failed deployments by 10% and minimizing deployment errors</li><li>Explored WASM SQLite with NoSQL backend, enabling complex analytics and cutting down backend calls by 40%</li></ul>	
Software Engineering Intern @ <b>NodeFlair - Tech Career Platform for SEA</b> NodeFlair is a startup that connects tech talents with job opportunities, streamlining the recruitment process	Jan. 2024 – Jun. 2024
<ul style="list-style-type: none"><li>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</li><li>Maintained and upgraded functionalities of a Plasmo browser extension, facilitating smoother access to AI tools</li><li>Leveraged parallel integration and e2e testing to achieve a 50% reduction in Continuous Integration (CI) test time</li><li>Set up Docker images for development to mimic production environment, reducing on-boarding time by over 80%</li><li>Utilized A/B tests on key landing pages for data-driven changes, boosting click-through rates by 18%</li><li>Deployed programmatic SEO to automate creation of SEO-optimised pages, increasing organic traffic by 60%</li></ul>	
Software Engineering / ML Intern @ <b>Home Team S&amp;T Agency (HTX)</b> xData builds data and AI products that enhances the Home Team’s capabilities in internal and mission-based operations	Nov. 2023 – Jan. 2024
<ul style="list-style-type: none"><li>Employed BeautifulSoup for web scraping, with data cleaning and transformation using Pandas and NumPy</li><li>Utilised GenAI for the construction of knowledge graphs from over 40,000 pages of unstructured legal documents</li><li>Implemented multi-agent LLMs for question answering (QA), for a 15% increase in accuracy in data-analysis tasks</li><li>Integrated knowledge graphs and vector databases to enhance multi-hop QA performance during retrieval-augmented generation (RAG), resulting in a 30% increase in evaluation scores and improved context precision</li><li>Initiated frontend redesign of Vertex, an in-house NLP tool serving 10+ agencies, upping feedback scores by 40%</li></ul>	

EDUCATION

National University of Singapore	Singapore
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PROJECTS / EXTRACURRICULARS

<b>Founding Software Engineer @ Check (Iterative W25)</b>   <a href="http://www.checkeduai.com">www.checkeduai.com</a> <ul style="list-style-type: none"><li>Led migration of Next.js &amp; Supabase app to GCP, reducing costs by 30% and improving performance by 20%</li></ul>	Feb. 2025 - Present
<b>Insecure File Service</b>   Simple file sharing service for public use - try it out at <a href="http://ifs.kenf.dev">ifs.kenf.dev</a> ! <ul style="list-style-type: none"><li>Developed a serverless file sharing service using AWS Lambda, CloudFront, and S3, managed with Terraform</li><li>Adopted by over 50 users for sending files to public printers, eliminating the need for sign-ins on public machines</li></ul>	Sep. 2024 - Present
<b>Basic Home Server</b>   Repurposed laptop running Ubuntu Server for personal use <ul style="list-style-type: none"><li>Exposed to the internet via Cloudflare Tunnels and secured with Cloudflare Zero Trust for remote SSH access</li><li>Utilised as a cloud compute platform to self-host backend services and GitHub runners - primarily used as a NAS</li><li>Set up cron jobs to automate backups on AWS S3 Glacier for cost-efficient redundancy without reliance on RAID</li></ul>	Feb. 2024 - Present

AWARDS

<b>NUS Hack&amp;Roll ‘25</b> - Top 8   <b>NUS-ISE Micron BACC ‘24</b> - 2nd Runner-up   <b>Ground Zero ‘24</b> - Top 10 <b>SCS Splash Awards ‘23</b> - 1st   <b>SUTD WhatTheHack ‘23</b> - 1st   <b>HTX HacX! ‘23</b> - 3rd   <b>CloudHacks ‘23</b> - 1st
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TECHNICAL SKILLS

<b>Languages:</b> JavaScript, Python, Ruby, Java, C, C++, SQL, PostgreSQL, HTML/CSS <b>Frameworks:</b> Next.js, React, React Native, Node.js, Spring Boot, Flask, Django, Ruby on Rails, Plasmo <b>Developer Tools:</b> Git, Docker, AWS, Microsoft Azure, Google Cloud Platform, Firebase, Supabase, Neo4j <b>Libraries:</b> NumPy, pandas, Matplotlib, TensorFlow, PyTorch, LangChain, ThreeJS
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