

EDUCATION

National University of Singapore B.Eng Computer Engineering (E-Scholars Programme) - 4.9GPA	Expected Grad: 2026
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EXPERIENCE

Founding Software Engineer @ Check (Iterative W25) Check revolutionizes student learning through AI-driven active recall, syllabus accuracy, and smart analytics <ul style="list-style-type: none">Engineered and launched over 5 novel features, driving a 40% surge in user retention and engagementSpearheaded migration of Next.js webapp to AWS, reducing costs by 30% and improving performance by 20%	Feb. 2025 - May 2025
Software Engineering Intern @ London Stock Exchange Group (LSEG) LSEG Labs addresses challenges in financial markets by assessing climate risks and simplifying ESG disclosure <ul style="list-style-type: none">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 environmentsDesigned and deployed infrastructure using AWS SNS for efficient Pub/Sub data-sharing between micro-servicesLed 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 environmentSet 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 errorsExplored WASM SQLite with NoSQL backend, enabling complex analytics and cutting down backend calls by 40%	Jun. 2024 – Dec. 2024
Software Engineering Intern @ NodeFlair - Tech Career Platform for SEA NodeFlair connects tech talents with job opportunities, optimizing the recruitment process for millions in SEA <ul style="list-style-type: none">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 usersMaintained and upgraded functionalities of a Plasmio browser extension, facilitating smoother access to AI toolsLeveraged parallel integration and e2e testing to achieve a 50% reduction in Continuous Integration (CI) test timeSet 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%	Jan. 2024 – Jun. 2024
Software Engineering / ML Intern @ Home Team S&T Agency (HTX) xData builds data and AI products that enhances the Home Team's capabilities in internal and mission-based operations <ul style="list-style-type: none">Employed BeautifulSoup for web scraping, with data cleaning and transformation using Pandas and NumPyUtilised GenAI for the construction of knowledge graphs from over 40,000 pages of unstructured legal documentsImplemented multi-agent LLMs for question answering (QA), for a 15% increase in accuracy in data-analysis tasksIntegrated 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 precisionInitiated frontend redesign of Vertex, an in-house NLP tool serving 10+ agencies, upping feedback scores by 40%	Nov. 2023 – Jan. 2024

PROJECTS / EXTRACURRICULARS

Insecure File Service Simple file sharing service for public use - ifs.kenf.dev <ul style="list-style-type: none">Developed a serverless file sharing service using AWS Lambda, CloudFront, and S3, managed with TerraformAdopted by over 50 users for sending files to public printers, eliminating the need for sign-ins on public machines	Sep. 2024 - Present
Basic Home Server Repurposed laptop running Ubuntu Server for personal use <ul style="list-style-type: none">Exposed to the internet via Cloudflare Tunnels and secured with Cloudflare Zero Trust for remote SSH accessUtilised as a cloud compute platform to self-host backend services and GitHub runners - primarily used as a NASSet up cron jobs to automate backups on AWS S3 Glacier for cost-efficient redundancy without reliance on RAID	Feb. 2024 - Present

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
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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, Plasm

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

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