

EDUCATION

National University of Singapore B.Eng Computer Engineering (E-Scholars Programme), IEEE-Eta Kappa Nu (HKN) 5.0 GPA	Expected Grad: Dec. 2026
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EXPERIENCE

Software Engineering Intern @ Open Government Products (OGP) OGP builds technology for the public good, solving problems for citizens and public officers	Sep. 2025 - Present
<ul style="list-style-type: none">Designed a fault-tolerant archival pipeline for offloading bloated tables using AWS EventBridge and ECS, resulting in a 40% increase in query speed by reducing database contentions and deadlocksIntegrated structured state tracking to ensure complete observability and reliable retries of archival jobsEnhanced job runner observability by implementing Datadog APM instrumentation for end-to-end traceabilityLeveraged Localstack for development and integration tests, eliminating the need for complex and flaky mocks	
Software Engineering Intern @ Binance Binance empowers users to trade, invest, and manage cryptocurrencies seamlessly and securely on a global scale	May 2025 - Aug. 2025
<ul style="list-style-type: none">Implemented a caching service for third-party APIs, improving data retrieval performance by 50%Developed a MFA key management extension, accelerating development workflow and reducing OTP retrieval timeExplored rate limiter implementations to ensure system stability via managing API request ratesDesigned intuitive, action-centric RPC endpoints to abstract underlying systems, reducing integration complexity	
Founding Software Engineer @ Pallo (formerly Check, Iterative W25) Pallo offers an AI tutoring platform that enhances student performance with personalized, curriculum-aligned learning	Feb. 2025 - May 2025
<ul style="list-style-type: none">Engineered and launched over 5 novel features, driving a 40% surge in user retention and engagementOptimized daily pg_cron jobs to ingest thousands of session results for identifying students' areas for improvementImplemented client-side caching and lazy loading, reducing load times by over 80% to improve user experience	
Software Engineering Intern @ London Stock Exchange Group (LSEG) 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">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%Built CRUD module for hierarchical data access permissions using composite keys in AWS DynamoDB (NoSQL)Explored WASM SQLite with NoSQL backend, enabling complex analytics and cutting down backend calls by 50%	

PROJECTS / EXTRACURRICULARS

Proxmox VE Homelab repurposed laptops running LXC containers and VMs	Feb. 2024 - Present
<ul style="list-style-type: none">Implemented HA for 2-node Proxmox cluster using QDevice for quorum and ZFS replication for data redundancyEnhanced security posture by facilitating p2p connections with Tailscale as a Zero Trust Network (ZTN) solutionConfigured a reverse proxy on a DigitalOcean droplet to handle SSL termination, optimizing network performanceAutomated off-site backups to Backblaze B2 using systemd timers and rsync, with status updates on Telegram	
Insecure File Service simple file sharing service for public use - ifs.kenf.dev	Sep. 2024 - Present
<ul style="list-style-type: none">Designed a serverless file sharing service using AWS Lambda, CloudFront, and S3, managed with TerraformAdopted by 50+ users for sending files to public printers, eliminating the need for insecure public machine logins	

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Ruby, Java, C, C++, SQL, MongoDB, Cypher, Terraform, Bash
Frameworks: Next.js, React, React Native, Plasmo, Node.js, Spring Boot, Flask, Django, FastAPI, Ruby on Rails
Developer Tools: Git, Docker, AWS, Microsoft Azure, Google Cloud Platform, Firebase, Supabase, Neo4j