

Koh Vinleon

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EDUCATION

National University of Singapore (NUS)
Bachelor of Computing (Honours), Computer Science

Singapore
2019 – 2022

EXPERIENCE

Software Engineer (Full Stack)

Mar 2023 – Jun 2023

ObvioHealth

Singapore

- Built, tested, and maintained full-stack Decentralized Clinical Trial applications that allow the creation of studies, configuration trial steps and publishing to patients using **React.js** (TypeScript), **Node.js**, **Jest** and **MongoDB**
- Developed new core functionalities and implemented optimistic UI updates, improving performance by up to 80%
- Migrated existing **CQRS** pattern microservices to **NestJS** framework, reduced latency and errors by up to 50%
- Championed the development of automated End-to-End BDD test framework using **Gherkin** and **Cucumber.js**

Freelance Software Developer

Mar 2023 – May 2024

ReShuffle Education

Remote

- Built and maintained full-stack educational web application using **Nuxt.js** (Vue.js), **NestJS** and **PostgreSQL**
- Designed the system architecture, managed database migration, and improved the existing workflow by 50%
- Developed automation scripts to enhance user onboarding experiences using **Manychat**, **Python** and **Selenium**

Software Engineer (Full Stack)

May 2022 – Mar 2023

Kinobi

Singapore

- Developed and maintained B2B and SaaS features, such as a form builder, talent pool, and in-built email manager using **Nuxt.js** (Vue.js), **Node.js**, **Express.js** and **MongoDB**, serving a clientele of over 60 global clients
- Acted as a technical product manager, leading the development and gathering client requirements for projects
- Mentored new engineers, performed code reviews, unit & integration testing and quality assurance (QA) testing
- Built CD pipeline using **GitHub Actions**, **Kubernetes** and **Slack API**, enabling engineers to deploy applications via Slack Slash Command and reducing deployment time and errors by up to 80%

Software Engineering & Product Intern

May 2021 – May 2022

Kinobi

Singapore

- Developed core B2C features, such as automated reminder, job portal to payment integration using **Nuxt.js** (Vue.js), **Node.js**, **Express.js** and **MongoDB**, resulting in a user base growth from 10,000 to 600,000 in a year
- Led the UI revamp & UX redesign and set up of **Progressive Web Apps** (PWA), increased users traffic over 50%
- Designed system architecture and implemented modern DevOps practices, including scalable infrastructure, **Redis** cache layer for 70% API response time reduction, monitoring, logging, and streamlined white-label app creation
- Built CI pipeline using **Docker** and **GitHub Actions**, reducing code errors and build time by up to 50%

Freelance Software Developer

Jan 2014 – Apr 2021

Drink2Connect

Singapore

- Co-developed web and mobile solutions using **ASP.NET (C#)** **Web Forms**, **Python**, **MySQL**, **Ionic 2** (Angular) and **Firebase** that optimized the business operation by 50% and drove over \$10,000 monthly revenue

PROJECTS

PeerPrep | *Nuxt.js, Node.js, MongoDB, AWS, GCP, RabbitMQ, GitHub Actions, Flux V2*

2021

- Designed and implemented a whiteboard-style technical interview preparation platform with peer matching system
- Utilized DevOps practices and software designs, including microservices architecture with horizontal scaling, API gateway and service discovery, load-balancing, message queues, IaaS, WebSockets, WebRTC, and CRDT

ÇaVa? | *Android (Java), React.js, Firebase, TwinWord API, Alice Bot 2.0*

2016 – 2020

- Developed an award-winning self-management emotional stress mobile solution as a solo social entrepreneurship and final year project in NYP, attained Gold Award in SiTF Awards 2016 and 1st Runner Up in Splash Awards 2016
- Represented Singapore (Tertiary Student Category) in 16th APICTA Award, held in Taipei, Taiwan

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, C#, HTML/CSS, SQL, Python

Frameworks & Libraries: Vue.js, Nuxt.js, React.js, NestJS, Node.js, Express.js, Jest, Redux Toolkit, React Native

Tools: Git, GitHub Actions, Amazon Web Services, Docker, Kubernetes, Terraform, PostgreSQL, MongoDB, Redis