

# Francis Choi

## Full Stack Engineer

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### SUMMARY

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An innovative and fast-learning Full Stack Engineer with 3 years of experience building and maintaining responsive mobile applications and websites in the IT industry. Proficient in Flutter, JavaScript, React, React Native and API integration; plus modern libraries and frameworks and enthused about solidity and web3. I am passionate about developing apps that are intuitive and engaging. I'm excited to work in a technical team that prioritizes the simplicity and serviceability of the app.

### EDUCATION

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The University of Hong Kong Sep. 2018 to Jan. 2022  
Bachelor of Engineering Computer Science 2022  
Completed Coursework: Object-Oriented Programming and Java, Data structures and algorithms, Computer Architecture

### EMPLOYMENT

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VirgoCX Inc. Toronto  
Front End Developer Aug. 2022 to Jun. 2023

- Building fluent UI and UX with **React, React Native, and typescript**.
- Building **SEO-Optimized** Blog Posts in **WordPress**.
- Implemented automated testing using **Jest** and **Cypress** to detect and **resolve 80% of bugs** prior to deployment, resulting in a **50% reduction in post-deployment bug fixes**.
- Implemented the security feature which includes **2FA and biometric security** checking to maintain a strong security posture.
- **Reduced the bundle size by 30%** by using the tracking dependencies tool.
- **Reduced** the time consumed in the whole **CI/CD procedure by 20%**.
- Implemented the push notification to **improve user retention significantly**.
- Identified and resolved complex code bugs, improving overall **application performance by 30%** and **reducing error rates by 20%**, resulting in increased customer satisfaction.

Kios May 2022 to Aug. 2022  
Full Stack Developer

- Designed and developed **RESTful APIs** with **Java Spring**, **resulting in a 30% reduction in server load** and **enabling smooth data exchange** between the front-end and back-end systems.
- Implemented **end-to-end authentication** for a web application using **Java Spring**, resulting in a **50% reduction** in unauthorized access attempts.  
Developed and **integrated OAuth2 security protocols** into multiple applications, resulting in a **75% reduction** in data breaches.
- Developed a scalable web application using **MongoDB** to handle 10 thousand records of customer data, **reducing query response time by 50%**.
- Optimized database performance by creating indexes and sharding collections, **increasing read and write throughput by 75%**.
- Utilized **Jest snapshot testing** to capture the state of UI components during development, **leading to a 40% reduction in regression errors** during code changes.
- Implemented **continuous integration and deployment processes** using **Jenkins**, **reducing deployment time by 60%** and **increasing team productivity**.

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## Full Stack Engineer

### EMPLOYMENT

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#### QuantDART

##### Frontend Engineer

Jan. 2021 to Jun. 2022

- Revamped the whole app and provide a better UI and UX to **reach 1000+ daily users**.
- Implemented the security feature which includes **2FA and biometric security** checking to maintain a strong security posture.
- Collaborated with stakeholders during development processes to confirm creative proposals and design best practices.
- Collaborated with blockchain developers to **build web3 applications**.
- Reviewed code, debugged problems and corrected issues.
- Collaborated with QA team to create and maintain a comprehensive suite of **end-to-end tests, resulting in a 30% increase in test coverage and a decrease in overall defect rate by 20%**.
- Integrated API with a WebSocket server to build a real-time chatroom function for all online users.

### PROJECTS

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#### Pokemon Picker

- Project build with **React, Tailwind CSS, and TypeScript**
- Search for Pokémon by name and apply filters with **autocomplete**.
- **Dark mode** and **mobile-friendly**
- Support **deep linking** to a specific step in the flow
- [GitHub Repo](#)

#### Go Up Stair

A Dapp that users can mint their first NFT.

Integrating buy and sell flow with OpenSea.

- **Blind Box**
- Mint NFT with other **ERC20 tokens** e.g. USDT
- Minting exclusive (**whitelisting**)
- Support **multiple wallet gateways**
- Mint NFT using **Solana**

#### CWFgram

An **Instagram** clone app.

- Styled views using **TailwindCSS, HTML5, SASS and CSS3** for uniform styling on all pages.
- **Lazy loading and placeholder effect** when loading data
- Effectively uses **React and NextJs** to develop Avatar and username hover pop up
- Developed a **comment section** for users to leave comments under the post.
- Effectively **uses React and NextJs** to develop a **drag-and-drop function to upload Images/Video**
- [GitHub Repo](#)

### SKILLS

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**Frontend:** React Native, React, NextJs, Redux, Flutter, Vue, Web3, Wordpress

**Backend:** NodeJs, Firebase, AWS, Java Spring, WebSockets, GCP, GraphQL, tRPC, Prisma

**Testing:** Jenkins(CI/CD), Unit Testing, Jest, Playwright, Cypress

**Deployment:** AWS Amplify, Vercel, App Store & Play Store Deployments, Docker, Kubernetes

**Programming Languages:** TypeScript, JavaScript, HTML 5, Python

**Databases:** MongoDB, MySQL, PostgreSQL