DON CHIA

Software Engineer

DETAILS

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LINKS

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SKILLS

Vue.JS

SwiftUI

Swift

Python

JavaScript

HTML & CSS

Kotlin

Dart

Jetpack Compose

Flutter

PROFILE

Young and passionate programmer with a versatile skill set encompassing Swift, Python, JS, Kotlin, HTML/CSS and SQL. Proficient in frontend development for web-apps using Vue.JS, TailwindCSS and iOS apps utilising SwiftUI, complemented by expertise in backend frameworks such as Flask for Python and familiarity with SQL and NoSQL databases such as MongoDB and Firebase. A self-taught UI/UX designer skilled in applying Apple Human Interface Guidelines and Google Material Design for app design, proficient in creating interfaces using the Figma mock-up tool. Demonstrates success in competing at prestigious events such as being awarded at Apple's WWDC Swift Student Challenge twice in a row in 2021 and 2022. Experienced software engineer with a proven track record of collaborating effectively with developers from diverse international and local backgrounds.

EMPLOYMENT HISTORY

Chief iOS Frontend Developer, NOSSAFLEX — Melbourne, Australia & Fredericksburg, USA

May 2020 — Present

- Chief frontend developer in a small team of international developers from USA and Australia
- Demonstrated independent and team-oriented problem solving skills, effectively addressing challenges encountered during the development process of the app
- Effectively organised and prioritised tasks using Notion and GitHub issues
- Employed MVVM architecture on the iOS app while leveraging SwiftUI and Figma to create a beautiful and intuitive UI
- Spearheaded the implementation of the complementary web-app frontend using Vue.JS
- Released the app to a global audience, amassing thousands of users worldwide
- Featured on local news channel as part of WWDC21 coverage
- Once again featured on local news articles as part of WWDC23 coverage

Flask

SQL

Pinia

MongoDB

Figma

Git

AWS

HOBBIES

Analog Photography
Darkroom Printing and
Development

- App trended in Singapore Top #100 downloaded app on the App Store

Frontend iOS Developer and Lead UI/UX Designer, AmityConnect
Charlottesville, USA

Nov 2021 — Mar 2022

- Crafted frontend UI using Figma, adhering closely to Apple's Human Interface Guidelines to ensure an intuitive user experience
- Hosted regular collaborative meetings to promote open communication and cohesive team dynamics
- Implemented the design by utilising Apple's SwiftUI framework, resulting in a polished and user-friendly end product
- Successfully collaborated with students from the University of Virginia and established ML/AI researcher from the Netherlands

Freelance Vue.JS Developer
USA

Jan 2023 — Present

- Implemented my innovative Vue.JS Web OS template for diverse clientele
- Clientele ranged from Los Angeles-based photography freelancer, Miami-based music production company to Donut Shop in Utah
- Custom functions and windows were constructed per client's requirements

Project Manager, Frontend Web Developer & UI/UX Designer, Fundigo Co.
Singapore, Singapore

Jun 2022 — Present

- Effectively coordinated a small team of skilled international developers from the SEA region, ensuring seamless workflow and delivery of high quality code
- Successfully revamped the UI of Fundigo's cross-platform mobile app by implementing Google's Material 3 design language to enhance user engagement and visual appeal
- Designed the app interface using Figma and collaborated with colleagues to help implement it with Google's versatile cross-platform framework, Flutter
- Contributed significantly to the development of the merchant portal by utilising Vue.JS and TailwindCSS to create a feature-rich and intuitively designed interface

ACHIEVEMENTS

Apple WWDC SSC 2021
Cupertino, USA

Mar 2021 — Jun 2023

- Clinched prestigious Apple WWDC SSC award in 2021
- Submitted a project that educated users on the fundamentals of web development

- Project featured innovative and interesting way for judges to learn more about HTML/CSS while also learning about my interests and hobbies
- Users are challenged with simple tasks that when solved, will display details about myself
- Project was developed using SwiftUI and Swift Playground Books, demonstrating technical prowess and creativity
- Showcased skills by competing with talented students from across the globe

Apple WWDC SSC 2022   Cupertino, USA

Mar 2022 — Jun 2023

- Attained the prestigious Apple WWDC SSC for the second time
- Submited an innovative project that explored the fusion of recursion and art by showcasing a unique and imaginative approach to programming and art
- Users explored the idea of generative art with a canvas built using SwiftUI
- The project aimed to explore the idea of Suprematism, a 20th-century art movement as well as the idea of randomness in artwork
- Demonstrated unwavering dedication by working on the project while serving National Service, UI and pseudocode were sketched and written out on paper while in camp, before being diligently translated into functional UI and code on the weekends
- Invited by Apple to present about my development journey at Apple Store Orchard Singapore

Best Soldier of the Month (SAF/10C4I)   Singapore, Singapore

May 2023 — May 2023

- Proactively volunteered for unit's photography and media team to help capture important high-key events and parades across the year
- Actively participated and provided support as a Signal Operator and Driver in Exercise Diamond Achilles and also volunteered to participate in Exercise Wallaby

Micron-NUS Industrial Systems Engineering Business Case Competition   Singapore, Singapore

Feb 2023 — Feb 2023

- Applied linear optimisation and industry research on case study questions pitched by Micron
- Clinched 4th place with a group of 4 students
- Tackled research questions and analytical problems

NUS EEE STEP Camp   Singapore, Singapore

Jun 2019 — Jun 2019

- Collaborated with students from ASEAN to develop an autonomous car
- Utilised C++, Python, Arduino and various Raspberry Pi Modules to create project

- The autonomous car made use of computer vision to detect specific signs on the road
- Clinched merit award under the guidance of professors and student mentors

National Robotics Challenge
Singapore, Singapore

Aug 2018 — Aug 2018

- Awarded Champion for Presentation as well as Champion for Presentation Content
- Researched on the feasibility of vertical farms in Singapore and other sustainable farming techniques
- Utilised Virtual Reality headsets to present content, offering an immersive experience of us exploring vertical farms and community gardens across Singapore, captured with a 360° camera
- The team demonstrated practical implementation by creating and programming physical Arduino demos to mimic a smart farming facility in a closed environment

National Air Race
Singapore, Singapore

Sep 2018 — Sep 2018

- Secured first place in an inter-school navigation and flight simulation competition, showcasing exceptional teamwork
- Served as the team's simulator pilot, skilfully operating the flight simulator while also collaborating with the team by playing a vital role in the navigation and calculation of the flight path

National Air Race
Singapore, Singapore

Sep 2019 — Sep 2019

- Earned the runner-up prize in an inter-school navigation and flight simulation competition
- Once again contributed as the team's simulator pilot while efficiently collaborating with team to navigate and calculate the flight path

INTERNSHIPS & PROJECTS

Web Developer & Designer at SAF (6th Dvision), Singapore Armed Forces
Singapore, Singapore & Idaho, USA

Aug 2023 — Oct 2023

- Applied skills such Flask and Vue.JS proficiency to create web portal for division-level exercise troopers
- Deployed a web app tailored to cater to the needs of approximately a thousand troopers participating in Exercise Forging Sabre 2023, conducted at Mountain Home, Idaho

- The web app boasted a diverse array of forms tailored for trooper usage, alongside advanced functionalities such as real-time tracking of vehicles and RFID login for users
- The web app was implemented with Flask, MySQL, Vue.JS & TailwindCSS

Web Developer & Designer at SAF (10 C4I Bn), Singapore Armed Forces

Singapore, Singapore

Aug 2023 — Oct 2023

- Implemented web app for SAF School Partnership Program (SSPP)
- The web app served as a "phygital" card that enhanced the experience of the physical booths organised by 10 C4I Battalion at Eunoia Junior College
- The interactive app incentivised students to visit and engage every booth to accumulate stamps by scanning the QR Code provided by each booth's organiser
- Web app features functions to scan QR Codes and was implemented using Vue.JS and TailwindCSS

Web Developer, FOSSASIA

Singapore, Singapore

Jun 2023 — Aug 2023

- Contributed to a Vue.JS web project under FOSSASIA community
- Collaborated with developers from various regions in Asia
- Designed and develop a check-in web app solution
- Employed open-source project workflow and utilised Git for effective version control and code management

Frontend Developer, WiseGo

Singapore, Singapore

Jan 2021 — Apr 2023

- Actively participated in staff and team meetings, contributing a positive and insightful outlook
- Demonstrated effective project management skills
- Utilised Vue.JS with Boostrap UI to craft frontend UI of web application

EDUCATION

A-Levels, Dunman High School

Singapore, Singapore

Jan 2016 — Dec 2021

EXTRA-CURRICULAR ACTIVITIES

Robotics, Dunman High School

Singapore, Singapore

Jan 2016 — Dec 2019

- Champion Award National Robotics Challenge 2018 Presentation Category
- Champion Award National Robotics Challenge 2018 Content Category
- Champion National Air Race 2018
- Runner-up National Air Race 2019
- Awarded Merit at NUS Autonomous Car EEE STEP Camp 2019

Infocomm, Dunman High School

Singapore, Singapore

Jan 2020 — Dec 2020

- Awarded Apple WWDC Swift Student Challenge Winner 2021
- Awarded Apple WWDC Swift Student Challenge Winner 2022
- Participated in Amazon's Build-on Hackathon
- Participated in Splash Awards
- Participated in CSIT Cyberthon 2020

International Strategic Affairs Council (Model United Nations), Dunman High School

Singapore, Singapore

Jan 2020 — Sep 2021

- Crisis Staff for Dunman High ASEAN Plus Summit 2020
- Director of Design Board for Dunman High ASEAN Plus Summit 2021

Dunman High Youth Alumni, Dunman High School

Singapore, Singapore

Jun 2023 — Present

- Volunteered and actively participated as part of Dunman High Youth Alumni's Committee
- Attained the position of Technology Executive
- Spearheaded efforts to modernise Dunman High's Alumni website by making use of fullstack Vue.JS and Headless CMS technology

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REFERENCES

Diego Bustamante (Senior Software Engineer)

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Josh Chiodo

Everyday Athletes

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