



Wong Zhi Chester

Aspiring software engineer with strong problem-solving skills and a variety of project and work experiences. People and team oriented with a passion for solving highly impactful technical challenges.

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Work Experience

National University of Singapore (NUS)

Aug 2021 – Nov 2021

Teaching Assistant (CS1101S Programming Methodology)

- Introduced programming as a method for communicating computational processes to 8 students.
- Taught the following topics: Functional abstraction, recursion, higher-order functions, data abstraction, algorithmic strategies, state mutation, loops and arrays, evaluation strategies, sorting and searching, debugging, and testing.

Defence Science and Technology Agency (DSTA)

Feb 2020 – Apr 2020

Software Developer Intern

- Developed a multiplayer mobile training simulation prototype for NSmen to revise Urban Operation tactical movement concepts with their team without a physical training site.
- Technology Stack: Unity3D, C#, Photon Networking, Git

National Service

May 2018 - Jan 2020

Army Computer Network and Information Systems Operator + Commander Personal Assistant

- Installed and managed firewalled client server networks on multiple occasions with Cisco routing and switching for up to 500 users.
- Designed, implemented, and debugged Local Area Networks (LAN) in 7 buildings and installations.
- Conducted Army computer network and information systems training for NSmen and NSFs.
- Overhauled unit administrative systems, bringing them online for efficiency and accuracy.
- Assisted the Officer-Commanding in managing the company's manpower.

Projects

Tuition Address Book Desktop Application (github.com/Chesterwongz/tp)

Sep 2020 - Nov 2020

A brownfield CRM cum Scheduler for 1-to-1 private home tutors to manage their administrative tasks on their computers using a CLI.

- Designed and implemented UI/UX enhancements to improve product ergonomics and increase user productivity.
- Integrated the CalendarFX library into the project which allowed users to schedule their lessons.
- Conceptualized and developed smart automations and alerts, such as warnings for clashing lessons to prevent scheduling mistakes.
- Wrote developer-facing documentation so that project can easily be continued by future developers.
- Created a clear and concise user guide with language used to matched to the intended audience, and jargon kept to a minimum or explained thoroughly, to assist users in using our product.
- Improved code quality with SonarQube.
- Technology Stack: Java, JavaFX, Junit, CalendarFX, CSS, FXML, Markdown, Figma, Jekyll, SonarQube, PlantUML, Github.

Issue Tracker WebApp (github.com/Chesterwongz/SpaceBar)

Jun 2020 - Aug 2020

A webapp with basic BA/BI tools and Agile Project Management features to facilitates efficient and effective collaboration for teams online.

- Developed real-time drag-and-drop issue tracker, community page, and business analytics/business intelligence tools with ReactJS and Firestore NoSQL database.
- Implemented authentication with Firebase Authentication.
- Technology Stack: React, Firebase.

Car Damage Computer Vision Insurtech (github.com/Chesterwongz/Insurtech-CV)

Aug 2021 - Dec 2021

A computer vision model to detect the location and type of car damages to estimate of the cost of repairs and speed up insurance claims.

- Trained a Mask R-CNN and Yolo models to achieve 60% accuracy of predicting location and type of damage on a car, to provide an estimated cost of repair.
- Technology Stack: Python, Keras/Pytorch/Tensorflow, Mask R-CNN, Yolov5, AWS EC2.

Education

National University of Singapore

Aug 2020 – May 2024

Bachelor of Computing (Computer Science)

- CAP: 4.88/5.0
- Dean's List (AY20/21 Sem 2)
- Relevant coursework:
 - Software Engineering: Code Quality, Software Design and Testing, Agile Methodology, Project Management.
 - Computer Networking, Routing and Switching.
 - Advanced Programming Methodology: Functional and OO Programming, Data Structures & Algorithms.

Temasek Junior College

Jan 2016 – Dec 2017

- RP: 87.5/90
- Awarded the Outstanding Values-In-Action (VIA) Award for exceptional contributions in community involvement projects.
- Awarded the ACE Award for Holistic Excellence.

Core Skills

- **Programming Languages:** Python • Java • C • C# • HTML • CSS • JavaScript • SQL
- **Frameworks / Tools:** React • Redux • Firebase • Flask • JavaFX • Junit • Git/Github