

CHUA YUN DA

Undergraduate graduation: December 2022

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Projects

- November 2020 – Present** **Developed Fitbit OS application for exercise research**
- *Used Javascript and SVG to create logic and UI*
- April 2020 – October 2020** **Team “Sanctum” awarded first prize of \$10,000 for inaugural NUS Medical Education Grand Innovation Challenge**
- *Prototyped Android and iOS mobile application MVP using object-oriented paradigm on Flutter*
- October 2019 – December 2020** **YNC Hacks - campus initiatives**
- *Developed Halcyon Wash app for iOS and Android using Flutter*
 - *Prototyped washing machine availability sensor system*
 - *Managed finances and procurement for YNC Hacks as treasurer*
 - *Started a brain-computer interfaces project to read silent speech*
- September 2018 – Present** **RememberingHarold.org**
- *Deployed and maintained WordPress website*
- May 2014 – June 2014** **Project Deconstruct**
- *Co-organized a hardware hacking competition for students with the Singapore Science Centre*

Education

- August 2018 – Present** **Yale-NUS Liberal Arts College**
- *Psychology Major and Mathematical, Computational, and Statistical Sciences Minor*
 - *Took classes in Software Engineering, Neuroscience, and Psychology*
 - *Prototyped “LittleYNC” android game as a team of 4 using Java*
- January 2014 – December 2015** **Anglo-Chinese School (Independent) International Baccalaureate Diploma**
- *Took higher level Biology, Chemistry and Mathematics*

Skills

- Object oriented programming (Python, Java, Dart) and functional programming (OCaml)
- Firebase for mobile app development
- IOT electronics

Work Experience

- May 2020 – November 2020** **Brain-Computer Interfaces Research Assistant for Dr Christopher Lee Asplund**
- *Used Matlab and Python to clean up and analyze time series data for experiments detecting event related potentials using openBCI*
- October 2019 – March 2020** **IOT Research Assistant for Dr Ben Andrew Olsen**
- *Used Raspberry Pi and camera systems with SQL database for multiple sensors monitoring*
- 2016 – 2017** **Singapore Armed Forces**
- *Commissioned as an infantry officer in March 2017*
 - *Led a small team for base operations in the Navy, including the International Maritime Defence Exhibition and Conference (IMDEX)*