

NATHANIEL KIN YEW WONG

Undergraduate Student

Department of Electrical Engineering and Computer Science

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Education

Northwestern University, Evanston IL, USA

BS/MS, Computer Engineering

Cumulative GPA: 3.88 out of 4.00 maximum

Sep 2015 – Present

Expected Jun 2019

St. Joseph's Institution, Singapore

International Baccalaureate Diploma

Score: 42 out of 45 points maximum

November 2014

Employment

Lieutenant, Singapore Armed Forces

Feb 2015 – Present

Commissioned 2015 as a Ground-based Air Defence Officer in the Republic of Singapore Air Force. Was awarded The Singapore Armed Forces Scholarship to complete bachelor's degree in Computer Engineering at Northwestern University, USA.

Competencies

Hardware description Languages [VHDL, Verilog]

Advanced

Web development [HTML, CSS, Javascript, PHP, WebGL]

Intermediate

Programming Languages [C++, Python, MATLAB]

Intermediate

Programming Languages [Lisp, C#, Java]

Novice

Honors and Awards

Dean's List (High Honors), Northwestern Univ.

2015, 2016, 2017

Dean's List (Honors), Northwestern Univ.

2016, 2017, 2018

The Singapore Armed Forces Scholarship

2015

Design Projects

'Floating' bridge game

2017

Used the p5.js Javascript framework to prototype the graphical user interface and game engine of a single player game of 'floating' bridge, a four-player card game commonly played in Singapore.

Webcam design

2017

Made for a design class. Worked in a team of three to build a simple web camera from component parts, and a simple controller for the camera. The camera was connected to the

internet via a WiFi chip and microprocessor and capable of live video streaming via a HTML page.

'Kraken' Telegram chat bot

2016

Wrote a PHP chat bot for the messaging app, Telegram. Uses a simple form of natural language processing to provide funny replies to the user it is conversing with. Wrote an simple API to easily modify username and keyword sensitivity lists so that the bot could respond in the context of a group conversation.

Extra-curricular

Vice President of Public Affairs, Residential College Board

Mar 2017 – Mar 2018

Vice President of Inter College Relations, Residential College Board

Apr 2018 – Jun 2018

Conducted affairs for a board representing over 1000 residential college members in the university. Organized intramural sports league games and other inter-college events. Managed the website, mailing lists and social media for the Executive Board. Produced promotional flyers and posters for events.

President, Shepard Residential College

Mar 2016 – Mar 2017

Academic Chair, Shepard Residential College

Mar 2017 – Sep 2017

Treasurer, Shepard Residential College

Sep 2017 – Mar 2018

Organized social events and promoted faculty-student interactions in the residential college. Membership of the college included about 90 students and 30 faculty and graduate fellows.

Treasurer, Global Engineering Brigades

Mar 2016 – Mar 2017

Managed financial activity of the student group. Helped to fundraise launching student-led engineering service trips overseas. Led local service efforts for the poor in Evanston, IL.

Member, NU Robotics

Sep 2015 – Jun 2016

Was part of a working group that explored the behavior of six-legged robots and their ability to overcome obstacles or rough terrain.