



SUN Yudong

孙毓栋

Email yudongsun019@gmail.com
Address Blk 91 Tanglin Halt Road
#25-300 Singapore 142091
Phone +65 97265068
D.O.B. 29 Jul 1998

linkedin.com/in/sunjerry019
github.com/sunjerry019

Curriculum Vitae

/ 01 Skills and Abilities

Languages

English

Native Level
Written/Spoken

Chinese

Native Level
Written/Spoken

German

Working Proficiency
TestDaF (TDN 4/5/4/4)

Skills

Proficient

Web Design + Full Stack Development

Frontend JavaScript, HTML5/CSS3
Backend LAMP/Django

*NIX Sys Administration and Automation
shell scripting; server deployment

Git Distributed Version Control System

Python, C++
incl. data processing (gnuplot, numpy)

Data Analysis

Document processing with L^AT_EX

Good

NodeJS, C#, VBA, and MATLAB

Competitive Programming
incl. data structures and algorithms

Computer Security

Signal Processing

Others

Photography, Video Editing

/ 02 Selected Projects

photonLauncher

github.com/sunjerry019/photonLauncher

Measuring the Temporal Correlation of Light from a Mercury Discharge Lamp

python/bash

2019

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2016

2014

Created equipment interfacing scripts used on Linux with pyusb and automated said scripts for repeated data acquisition. numpy and gnuplot were used to statistically analyse collected data. Reverse SSH was utilized for remote monitoring, experimentation and extraction of data without physical access to the lab.

Luggage Tags

Singapore Armed Forces

Modified svg files using C++ to automate the generation of > 1200 personalised luggage tags for an overseas exercise against time and manpower constraints.

C++

2018

The English Tuition Corner

theenglishtuitioncorner.com

Deployed a Wordpress website and email server for my teacher from a LAMP VPS. Emails were also properly authenticated with DKIM and SPF.

Full Stack

2017

SMB Redesigned

JS

2016

github.com/sunjerry019/SMB_Redefined

Greasemonkey User Script that incorporated MaterializeCSS to create a custom, better designed user interface to the school's online message board (SMB) at its original endpoints.

svg2eqn

python

2016

github.com/sunjerry019/svg2eqn

Python script that converts simple svg images into parametric equations that can be plotted on a graphing calculator. Used to submit entries for a graphing calculator design competition.

CCA Website

HTML/CSS/JS

2015

github.com/sunjerry019/hci-cca-website

Volunteered to deploy an infosite to my high school server to centralise CCA information for new students.

/ 03 Other Relevant Experiences

2017 - 2019
/02 /02

Operations and Training Administrator

Army / NSF

Overcame limitations of provided tools by creating and maintaining a database in Excel to manage the particulars and details of more than 1200 people, including writing periphery tools to automate the verification (e.g. NRIC) and retrieval of information from the intranet using VBA and formulae.

2015 - 2016
/02 /06

Founding Member, Coding4Children

Volunteer

Ulu Pandan Stars (UP Stars)

Through various mini scratch projects, taught underprivileged primary school children coding in hopes of getting them interested in technology and learning a new and useful skill in this changing times.

2015 - 2016
/02 /06

Publicity I/C, Science Student' Research Council

ssrc.infocommsociety.com

Physics Research

Led a dedicated team in the promotion of Science as the overall Media and Publicity I/C for the Council and the International Science Youth Forum (ISYF). Administered and designed both the Council and Forum Website in 2016 with Wordpress.

2011 - 2016

Electronic Communications and Computer Club (EC³)

Vice Chairman 2014

Web Developer

Self taught most computer knowledge in this club. Developed skills and gained experience in Web Design Development and Competitive Programming. Exposed to basic computer security concepts. Represented the school in national competitions such as the Singapore Games Creation Competition (SGCC) and National Olympiad in Informatics (NOI).

/ 04 Education

2015 - 2016

Hwa Chong Institution (Junior College)

GCE A Levels

H2 4×A's // H3 Distinction

Physics, Chemistry, Maths and German H2

Linear Algebra [NUS] H3

Selected to pursue Physics and Maths under the Gifted and Talented Education Programme. Excelled and was awarded the Hwa Chong Diploma with Distinction upon graduation.

2011 - 2014

Hwa Chong Institution (High School)

Integrated Programme

Academic Mean Subject Grade 1.27

Physics and Biology Specialisation with German as a 3rd Language. Graduated with the Outstanding Student Award (OSA).