Yudong SUN

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Geburtstag 1998-07-29

Lebenslauf

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/ 00 Zusammenfassung

/ 01 Fähigkeiten

Sprachen

English	*Chinese*	*German*
Native Level	Native Level	Working Proficiency
Written/Spoken	Written/Spoken	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 LaTeX

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   `python/bash`   2019
github.com/sunjerry019/photonLauncher   ∧
Measuring the Temporal Correlation of Light from a Mercury Discharge Lamp   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 statiscally analyse collected data. Reverse SSH was utilized for remote monitoring, experimentation and extraction of data without physical access to the lab.

Luggage Tags   `C++`   2018
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.

The English Tuition Corner   `Full Stack`   2017
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.

SMB Redesigned   `JS`   2016
github.com/sunjerry019/SMB_Redesigned

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 underpriviledged 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 (EC^3)
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).