Danny Guo

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EDUCATION

Bachelor of Computer Science   2016 - Expected Dec 2019
UNSW

EMPLOYMENT

Python Tutor   Feb 2019 - Present
BitByBit Parramatta High School
- Facilitated coding skill development within high school students through Python teaching
- Assessed student needs and designed tailored lesson plans addressing key areas of concern
- Increased understanding of Python concepts through transforming challenging concepts into simplified examples
- Promoted as a casual tutor after exceptional performance as a volunteer teaching assistant

PERSONAL PROJECTS

Wikia WebScraper Discord Bot (https://github.com/dannyg97/GBFWiki-Discord-Bot)   August 2019
Python
- Developed a Discord chat bot that responds to specific commands and scrapes the relevant Wikia article
- Implemented a web scraper in Python with Beautiful Soup 4 to extract relevant key metrics from wiki pages
- Used Python with discord.py, a Python API wrapper for Discord, to create a REST API that conforms to the Discord schema

Portfolio (https://dannyg97.github.io/)   August 2019
HTML, CSS, JavaScript
- Designed and coded a responsive webpage from the ground up to gain experience with front-end development and to broaden personal skillset
- Used Bootstrap to improve design and layout of the webpage and Javascript's jQuery library for animations

Euclidean Vector (https://github.com/dannyg97/Euclidean-Vector)   July 2019
C++
- Created a full implementation of a Euclidean Vector library, including constructors, destructors, methods and operators
- Performed rigorous unit testing on each function to ensure correctness and reliability using C++'s Catch2 testing framework

EXTRACURRICULAR ACTIVITIES

Project Manager   May 2019 - June 2019
STEM Leaders Program
- Utilised Python's OpenCV library for image recognition, Splunk for visualising data, and AWS as a remote host for Splunk
- Managed a team of 5 software developers to create a virtual replica dashboard based on a physical dashboard
- Employed agile methodologies to ensure a smooth software development process throughout the duration of the project
- Undertook an intensive 4-day training workshop to develop skills such as critical thinking and project management

Participant   Sep 2018
UNSW CSESoc Student Struggles Hackathon
- Collaborated with 2 other team members to create a website that showed a student's progress throughout a degree and possible course pathways
- Delegated tasks to team members as the team leader to ensure that the project would be completed on time
- Used Python to host a local Flask instance and to scrape the UNSW handbook to extract pre- and post-requisite courses for a certain course

Participant
UNSW Sumobot Competition   Jun 2018
- Was involved in the design, planning and construction phases of robotics within a team
- Developed a deeper understanding of the coding behind robotics and experience in coding with an Arduino

Volunteer   Jan 2018
Student Welcome Initiative, UNSW Student Life
- Guided new first-year students in an AHEGS-accredited volunteering program
- Undertook mental health training and practiced guided consultations with supervisors
- Provided high quality, friendly customer service and peer-to-peer support to over 30 students with support and advice for their transition to university

PROFESSIONAL SKILLS

Back-end languages: Shell, Perl, Python, Java, C++, Dart
Front-end languages: HTML5, CSS, JavaScript