Dmytro Suprun

https://github.com/dsupru

State College, PA, 16803 dsuprunsw@gmail.com

SUMMARY

A graduating software engineer student, looking to use my passion in software design to make meaningful impact.

EDUCATION

The Pennsylvania State University, University Park, PA — Bachelor of Science: **Computer Science**
Anticipated Graduation: December 2020 — GPA**: 3.91/4.00**
Relevant coursework:

• Designed pipelined CPU in Verilog	FPGA, Verilog
• Implemented a CPU scheduler with pthreads	C, Pthreads
• Wrote a proxy server and a shell.	C

WORK EXPERIENCE

Dell Boomi, Chesterbrook, PA. — **June 2020 – July 2020**
Cloud Engineer Intern | Managed Cloud Services

• Enabled detection and reporting of application-level freezes on Boomi clouds by designing a monitoring process.	JavaScript, Boomi Platform
• Drastically reduces deployment time of the monitoring process by automating it with Ansible.	Ansible

Viavi Solutions, Maryland, MD. — **January 2019 – August 2019**
Systems Software Engineer Intern | Platform

• Implemented a program in C++11 that allowed to migrate applications to a different platform. Used Boost Libraries. • Refactored applications to break dependencies on a particular hardware. Worked in a cross-compiled environment.	C++11, Bash, CMake, Linux, Boost Libraries
• Designed and integrated to CI component tests in Python which allowed for a core application to be tested natively, instead of relying on target hardware. • Implemented XML to JSON parser for re-using configuration files on a new system.	Python, CMake
• Practiced TDD, pair programming and participated in code reviews.	Git, Agile practices

Pennsylvania State University, Philadelphia, PA. — **February 2018 – April 2018**
Peer Tutor in Physics and Computer Science

- Provided students with instructions for topics in Mechanics, Electricity and Magnetism and Computer Science.

EXPERIENCE

Undergraduate Research at Pennsylvania State University — **September 2017 – August 2018**
An intuitively controlled sound scape system for the blind and visually impaired

• Implemented a program in shell script and C++ that detects BLE device (joystick), and pairs with it to provide the remote control for a device. Used 'Expect' to interact with a bluetooth manager over CLI.	C++, Bash, Expect, Linux
• Developed a program in C++ which generates a surround sound of a certain shape (using SFML), in order to enable research in the area of shape recognition for the visually impaired people.	C++, SFML
• Designed software for a system that combines a (single point) rangefinder, display and a joystick, allowing a user to measure distances in different programmed modes on a handheld device.	C++, Arduino

Undergraduate Research at Pennsylvania State University — **September 2016 – March 2017**
Machine learning for pulsar classification
https://scholarsphere.psu.edu/concern/generic_works/8049g5193

• Used transfer learning with Tensorflow to retrain a CNN for post-processing data from the Arecibo telescope and GBT to detect neutron stars. • Achieved 19 times increase in efficiency.	Python, Linux, Tensorflow