

Lawrence Lee

EXPERIENCE

SOFTWARE ENGINEERING INTERN

Azure Networking, Microsoft

Sunnyvale, CA

May 2018 – August 2018

- Migrated network services to new communication standard of Protobuf messages over the gRPC framework to reduce CPU usage by 80% and memory usage by 20%.
- Designed and implemented networking benchmark to measure performance of new communication standards.
- Implemented a new proprietary message standard between networking services.
- Streamlined and containerized build pipeline for a networking application

SOFTWARE DEVELOPMENT INTERN

Sikorsky Aircraft Corporation

Stratford, CT

June 2017 – August 2017

- Created several applications to analyze point cloud data with PCL (Point Cloud Library).
- Designed a benchmarking application to measure performance of geometric mesh generation methods.
- Developed a visualization module to create cross-sectional and top-down images of point clouds.
- Implemented usability improvements to existing point cloud data conversion and analytic tools.

SOFTWARE DEVELOPER

DATA Laboratory

University Park, PA

January 2017 – May 2017

- Utilized JSoup and JDBC Java libraries to implement program to process Amazon review data.
- Employed Apache Lucene and Tika libraries to filter tweets based on language and correct spelling errors within Tweet body.

PAYLOAD SUBSYSTEM LEAD

Lion Tech Rocket Labs

University Park, PA

September 2017 – May 2018

- Designed and developed an autonomous rover to deploy from a rocket after landing.
- Developed rover control software to and implemented obstacle avoidance as well as mission-critical logic.
- Designed and fabricated rover circuitry including Arduino micro-controller, various sensors, motors, servos, and ejection devices.

📍	901 N Penn St P401, Philadelphia, PA 19123
☎	610-996-7538
✉	lawrence.lee@psu.edu
🌐	www.lawrencelee.tk

EDUCATION

2016 – 2020 **Penn State University**
Schreyer Honors College

DEGREES PURSUED **Computer Science**
B.S. — M.S.

AS OF SPRING 2018 **3.86 Major GPA**
3.65 CUMULATIVE GPA
Senior Standing

PERSONAL PROJECTS

STACKOVERFLOW SEARCH	A Java utility to automatically search Google and Stack Overflow for exceptions thrown during run-time.
GROUPME TRANSLATOR	A GroupMe bot which corrects certain words sent inside a chat and re-sends a translated message

TECHNICAL SKILLS

PROFICIENT IN	C++, C, Java, Python, CMake, Linux Administration, Docker, Git
FAMILIAR WITH	Bash Scripting, SQL, Javascript, Apache Maven, Windows Administration, Doxygen

MULTIMEDIA SKILLS

PROFICIENT	Adobe Premiere, HTML, CSS
FAMILIAR WITH	ⒶT _E X, Adobe After Effects, Adobe Photoshop

COMMUNICATION SKILLS

ENGLISH	Native speaker
CHINESE	Oral (Mandarin): fair – Written: basic
SPANISH	Oral: basic – Written: basic