

Lawrence Lee

EXPERIENCE

SOFTWARE ENGINEERING INTERN

Azure Networking, Microsoft

Sunnyvale, CA

May 2018 – August 2018

- Migrated **C++/C** 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

Autonomy Group, 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.

SUBSYSTEM LEAD

Payload Subsystem, 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 **C++** 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.lfqllee.com

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

NEARBY

A social media platform to share crowd-sourced information about local events

TECHNICAL SKILLS

PROFICIENT IN C++, C, Java, Python, CMake, Make, Linux Administration, Docker, Git

FAMILIAR WITH C, Bash Scripting, SQL, Apache Maven, Doxygen

MULTIMEDIA SKILLS

PROFICIENT Adobe Premiere, HTML, CSS

FAMILIAR WITH \LaTeX , Adobe After Effects, Adobe Photoshop

COMMUNICATION SKILLS

ENGLISH Native speaker

CHINESE Oral (Mandarin): fair – Written: basic

SPANISH Oral: basic – Written: basic