

Lawrence Lee

EXPERIENCE

SOFTWARE ENGINEERING INTERN

SONiC, Azure Networking, Microsoft

Redmond, WA

May 2019 – August 2019

- Modified Linux **system services** to support parallelized **Docker** container stacks
- Worked with Linux **network namespaces** to encapsulate and connect multiple network processing units
- Debugged and measured **BGP** session performance
- Increased switch management software throughput by 400%

SOFTWARE ENGINEERING INTERN

SWAN, Azure Networking, Microsoft

Sunnyvale, CA

May 2018 – August 2018

- Migrated network services to use **Protobuf** and **gRPC** to reduce CPU usage by 80% and memory usage by 20%
- Implemented a new proprietary message standard between networking services
- Streamlined and **containerized** application build pipeline

CO-FOUNDER, ANDROID DEVELOPER

Crowdshout

State College, PA

November 2017 – Present

- Designed model and associated mechanics for location-based social network
- Developed and tested native **Android** application with **MVP** architecture to interact with REST API

SOFTWARE DEVELOPMENT INTERN

Autonomy Group, Sikorsky Aircraft Corporation

Stratford, CT

June 2017 – August 2017

- Designed a benchmarking application to measure performance of geometric mesh generation methods
- Developed a module to visualize **point clouds**
- Implemented usability improvements to existing point cloud data conversion and analytical tools

SUBSYSTEM LEAD

Payload Subsystem, Lion Tech Rocket Labs

University Park, PA

September 2017 – May 2018

- Developed **C++** control software for an autonomous rover
- Designed and fabricated rover **circuitry** including **Arduino** micro-controller, various sensors, motors, servos, and ejection devices

CONTACT

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⚡ | www.lawrencelee.dev

EDUCATION

2016 – 2020 **Penn State University**
College of Engineering

DEGREES PURSUED **Computer Science, B.S.**
Minor in Mathematics

GPA **3.87 Major**
3.66 CUMULATIVE

PERSONAL PROJECTS

STACKOVERFLOW SEARCH

A **Java** utility which automatically searches Google and Stack Overflow for exceptions thrown at run-time

GROUPME TRANSLATOR

A GroupMe **Python** bot which detects certain misspelled words sent inside a GroupMe chat and sends a corrected version of the message

NEARBY

A social media platform built with **Django** and **Angular** to view and 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