Lawrence Lee

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Experience

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.
- Built a tool to integrate several of the above-mentioned modules and tools for ease of use.

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.
- Applied SQLite 3 Python library and language processing algorithm to process bulk Twitter data.
- Executed sentiment analysis on Tweets about specific products to provide manufacturers with more precise data on public product perception.

Payload Subsystem Lead
Lion Tech Rocket Labs
University Park, PA
September 2016 – Present

- Developed an autonomous autogyro payload to be launched out of a rocket mid-flight.
- Consolidated, streamlined, tested, and debugged C++ code from a multi-person team to ensure compatibility between modules.
- Devised flight control algorithm to automatically steer autogyro towards preset destination.
- Applied Adafruit libraries to program Arduino and XBee modules to ensure communication.
- Designed and fabricated electronic circuitry to integrate sensors, Arduino microcontroller, and communication components.
- Coordinated software development within a team of 3-4 people and enforced coding standards to improve code readability and utility.

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	LaTeX, Adobe After Effects, Adobe Photoshop

Communication skills

English	Native speaker
Chinese	Oral (Mandarin): good – Written: fair
Spanish	Oral: fair – Written: fair