Lawrence Lee

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EDUCATION

Pennsylvania State University | Schreyer Honors College
- Major GPA - 3.80 | Cumulative GPA - 3.63
- B.S. and M.S. in Computer Science, Senior Standing   Aug 2016 – Present
- Dean's List - awarded to students with a 3.5 GPA or higher   2/2 Semesters

TECHNICAL EXPERIENCE

Sikorsky Aircraft Corporation, Lockheed Martin Corporation   Jun 2017 – Aug 2017
- Created several applications to analyze point cloud data with PCL (Point Cloud Library)
  - Designed a benchmarking application to measure performance of mesh generation methods
  - Developed a visualization module to create cross-sectional and top-down images of point clouds
  - Implemented usability improvements to exisiting point cloud data conversion and analytics tools
  - Built a tool to integrate several of the above-mentioned modules and tools for ease of use

DATA Laboratory, Pennsylvania State University   Jan 2017 – Present
- Utilized JSoup and JDBC Java libraries to implement program to process Amazon review data
  - Performed calculations to weight individual reviews based on personal review history to provide more accurate customer feedback to manufacturers and retailers
- Employed Apache Lucene and Tika libraries to pre-process Tweets for sentiment analysis
  - Filtered tweets based on language and corrected spelling errors within Tweet body

LionTech Rocket Labs, Pennlysvania State University   Sep 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 direct 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

Personal Projects
- StackOverflow Search Library
  - A Java library using Apache Maven to automatically search StackOverflow and Google for exceptions thrown during runtime
- GroupMe Translator
  - A GroupMe bot which corrects certain words sent inside a chat and resends a translated message

WORK EXPERIENCE

Instructor, Mathnasium of Glen Mills   Jun 2014 – Jun 2016
- Fostered love for mathematics in students by explaining, refining, and solidifying core mathematical concepts from basic operations to calculus

SKILLS

Technical
- Coding experience: Java (2 years), Python (1 year), C++ (1 months), SQL (3 months)
- Multimedia: Adobe Premiere, Adobe After Effects, Adobe Photoshop, LaTeX

Leadership
- Lion Tech Rocket Labs
  - Coordinated software development within a team of 3-4 people and enforced coding standards to improve code readability and utility

EXTRA CURRICULARS
- Olympic weightlifting   Sep 2015 – Present
- Piano performance   Jul 2002 – Present
- Lion Tech Rocket Labs, Pennsylvania State University   Sep 2016 – Present