Suilong (Peter) Luo

FULL-TIME SOFTWARE ENGINEERING

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Education

The Pennsylvania State University, Main Campus   *State College, PA, USA*

BACHELOR OF SCIENCE, COMPUTER SCIENCE   *Aug 2015 - May 2019 (Expected)*

- **Cumulative GPA:** 3.46/4.0;   **Dean's List:** 4/6 semesters
- **Organization:** Asian American Students In Action (Mentor & Coordinator), Hong Kong Student Association (Officer)

Work Experience

GlaxoSmithKline   *Philadelphia, PA, USA*

SOFTWARE ENGINEER & PROJECT COORDINATOR INTERN   *July - August 2018*

- Performed technical evaluation of 3rd-party search engine solution (i.e. elasticsearch, Azure) to replace current search solution
- Contributed to the design of a new platform that will be used by 100k employees and partners at/with the company
- Prototype a working **node.JS** API connected to **mongoDB**, that provide a diagnosis based on provided symptoms and appropriate GSK products for treatment
- Developed a **native android** application to consume the GSK diagnosis API

FedEx Service   *State College, PA, USA*

STUDENT DEVELOPER   *September - December 2017*

- Worked in an agile development environment to transform the zoning system at sortation facility
- Designed a system of virtual gate with Bluetooth beacon to increase workflow efficiency at FedEx sortation facilities
- Prototype a **native android** application that updates the user's gate location when passing through beacon

Projects

Splitz (ongoing) A bill splitting application to allow for the ease of restaurant and utility bill management develop in **react.JS native**

Malloc Library Re-implemented the **C** malloc library with explicit free list as the basis of memory allocation design

HackPSU Backend API (ongoing) Maintained and improved the hackathon's scalable**nodeJS** API secured with ACL used to connect to the **mySQL and AWS databases** that contained information regarding hackathon's operation and the 700+ hackers registered and attending the hackathon to support other applications used to maintain the flow of the hackathon.

Alexa++ (KentHackEnough) Developed and deployed an Amazon Echo custom skill that retrieves and relays a list of ingredients followed by instructions, and related recipes based on user's request, through a call to a custom **Python** API hosted with **Elastic Beanstalk** that consumed data from a 3rd-party culinary API.

AlexaMD (HackDarthmouth) Cooperated with a team to design a medical diagnosis Amazon Echo custom skill that consumes a **Python** API hosted on **elastic Beanstalk** that takes in and parse the list of symptoms based on an user's description of symptoms and then consumes 3rd-party medical API to retrieve and provide a diagnosis

Academia Experience

Penn State College of EECS   *State College, PA, USA*

LEARNING ASSISTANT/GRADER   *January 2017; February 2018- present*

- **Programming and Computation I: Fundamental (Fall 2018)** Introduce students to object-oriented programming in Python
- **Programming and Computation II: Data Structure (Fall 2018)** Grade Python object-oriented project & data-structure assignment
- **Object Oriented Programming with Web-Based Application (Summer 2018):** Graded Java projects and held office hours to provide assistance on programming assignments, and provided feedback to help students improve their understanding of object-oriented programming in Java.
- **Data Structure and Algorithms (Spring 2018):** Graded coursework on theoretical data structure and Algorithm assignments
- **Introduction to Programming Techniques (Spring 2017):** Introduced introductory programming and algorithm design to students

Awards

2016, 2017	**ACM International Collegiate Programming Competition**,	*Youngstown, OH, USA*
2017, 2018	**CodePSU Advanced Tier**, Placed 3rd in 2018	*State College, PA, USA*
2016	**CodePSU Intermediate Tier**, Placed 1st	*State College, PA, USA*