**Dailun Cheng**

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**EDUCATION**

**Cornell University**, Ithaca, NY Expected Graduation: May 2018

Master of Engineering in Computer Science GPA: 4.00 / 4.30

**Pennsylvania State University**, University Park, PA Graduated at: May 2017

Bachelor of Science in Computer Science, Minor in Math & Economics GPA: 3.88 / 4.00 (Magna Cum Laude, Top 4%)

**SPECIALIZED SKILLS**

* Proficient: Python, Java, C, JavaScript
* Fluent: Linux Shell, Docker, Git, C++, Oracle database SQL, HTML, JSON, AJAX, Microsoft Office
* Beginner: CSS, BootStrap, C#, Assembly Language-MIPS, jQuery, Verilog, Prolog, MATLAB

**WORK EXPERIENCE**

**Software Developer Internship,** PsyTech Solutions, Inc, Hummelstown, PA **5/2015~8/2015**

* Implemented a webpage dashboardwith interactive charts in JavaScript. Implemented the project in Eclipse Java EE built in Maven using Apache Tomcat server. Accessed data structured in JSON from result in Oracle database. Background framework was provided. This application was deployed into company’s main production software.
* Responsible for implementing backend Java and using AJAX to deal with data transfer between back end (Database, Java class) and front end (Java Sever Page). Developed many user interface (UI) features in front end using JavaScript.
* Wrote CSS and Bootstrap for webpage layout, Oracle SQL for database communication and documentation for my code.

**COURSE PROJECTS**

**Extension project to DeathStarBench (Microservices, Cloud Computing Field), Cornell University 9/2017~12/2017**

* Interpreted the open-source microservice e-commerce application “Sock Shop” and integrated it into the microservices benchmark suite “DeathStarBench”. Modified application was published to Github.
* Responsible for implementing wishlist functionality and conducting load test to all microservices. Learnt microservices programming in Docker in Linux Ubuntu cluster. Worked with code written in Java, Go, MongoDB, MySQL and Node.js.

**User equipment control and logging software, Pennsylvania State University (Capstone Project) 2/2017~5/2017**

* Designed a new centralized server controlled login interface that can identify authorized users, filter authorized machines, record successful requests and display current machine status for MSE department. Project team used Java as front end GUI, MySQL and REST API as back end server. This project replaced the old LabVIEW interface and benefits **608** students and researchers.
* Responsible for designing front end GUI and its supporting Java backend code. Designed the condense table view status table instead of the original block view diagram. Implemented the right click menu for every active table segment to manually stop machines. Timers, class structures and detail code were implemented. Project was published and revised in GitLab.

**Concurrent Programming various Assignment, Pennsylvania State University 2/2017~5/2017**

* Solved parallelized matrix multiplication and prefix sum problems using OpenMP, MPI and CUDA library in C.

**Artificial Intelligent various Assignments, Pennsylvania State University 9/2016~1/2017**

* Used Python to solve Linear Disk Movement, Sudoku Solver, Spam Filter, Markov Language Model, Lights Out, etc.

**3D Printer Driver, Pennsylvania State University 2/2015~5/2015**

* Implemented 3D printer low level functionality like reading/writing .3dm file, optimizing moves to accomplish quest with fewest instructions sent to nozzle, and sending instruction through network. Test was provided. Wrote in C under Linux Ubuntu.

**Mastering Tarski, Pennsylvania State University 2/2014~5/2014**

* Built a learning software using C++ to enable students to practice translation from natural language statement to logical expression in Tarski’s world (a practice of first order logic). The software checked for syntactical mistakes and gave one possible solution. Difficulty level and type of question were adjusted based on user’s performance.

**ACTIVITIES & AWARDS**

* Magna Cum Laude was awarded by Penn State University during graduation ceremony, which means I got top 4% GPA among all computer science graduates.