

# Dyllon Gagnier

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## EDUCATION

### UNIVERSITY OF UTAH

BS/MS COMPUTER SCIENCE - DATA  
MANAGEMENT AND ANALYSIS

Dean's List (All Semesters)

Grad. May 2019 | Salt Lake City, UT

### LAYTON HIGH SCHOOL

Grad. May 2012 | Layton, UT

## COURSEWORK

### UNDERGRADUATE

Data Structures and Algorithms

Probability and Statistics

Fundamentals of Digital System Design

Discrete Mathematics

Software Practice

### GRADUATE

Computer Networking

Databases

Machine Learning

Natural Language Processing

Data Visualization

Parallel Programming (GPU)

Computational Topology

## SKILLS

### LANGUAGES / FRAMEWORKS

- Python
- Java and Spring
- JavaScript and Typescript
- C++
- SQL
- C#
- Racket
- Haskell

### PROGRAMMING SKILLS

- Software Model Checking
- Property Based Testing
- Database Schema Design and Normalization
- Test Driven Development
- Automated UI Testing
- Functional Programming
- Web Frontend and Backend

## LINKS

LinkedIn:// [pub/dyllon-gagnier](https://pub/dyllon-gagnier)

GitHub:// [slaymaker1907](https://github.com/slaymaker1907)

## EXPERIENCE

### GOLDMAN SACHS INTERN | PRIVATE WEALTH MANAGEMENT

SOFTWARE ENGINEER

July 2019 - present | Salt Lake City, UT

- Developed highly scalable and highly available backend systems supporting asset transfer.
- Used Sybase, MongoDB, and a number of rest services to migrate data from a legacy system to a new system while ensuring no data loss in the mapping.
- Introduced team to property based testing helping greatly reduce the burden of unit testing while increasing their quality.

### GOLDMAN SACHS INTERN | PRIVATE WEALTH MANAGEMENT

TECHNOLOGY INTERN

June 2016 - | Aug. 2018 Salt Lake City, UT

- Improved existing internal framework by removing database deadlock condition.
- Developed REST backend for document metadata repository using Java Dropwizard.

### UNIVERSITY OF UTAH SCHOOL OF COMPUTING | TEACHING ASSISTANT

Jan. 2016 - May 2016 | Salt Lake City, UT

- Taught small to medium sized groups of students about assembly programming and computer architecture.
- Designed automated test framework for the MARS MIPS assembly simulation program to grade student work quickly and fairly.

### PANASONIC R&D COMPANY OF AMERICA | SOFTWARE QA INTERN

June 2015 - Aug. 2015 | Salt Lake City, UT

- Developed complex integration tests for the OpenDOF distributed object framework in C#, C, and Java. (OpenDOF.org)
- Performed full QA and testing of the OpenDOF Interface Repository 1.0 (<https://interface.opendof.org/>)

### GENERAL ATOMICS AERONAUTICAL SYSTEMS, INC.

|SOFTWARE DEVELOPMENT INTERN

Dec. 2014 - May 2015 | Layton, UT

- Wrote automated UI tests for Claw (GUI for image processing on drone images).
- Developed a module that was able to detect from two images of text with differing texts if one was bolded.

## SPECIAL PROJECTS

- Highly optimized shuffle in CUDA and Rust (see <https://github.com/slaymaker1907/quick-shuffle>)
- General purpose IDE for graph based programming (see <https://github.com/2graphic/sinap-ide>)
- Wrote a stateless password manager (see <https://slaymaker1907.github.io/password/>)
- Wrote a music analysis tool using computational topology to find patterns (see <https://github.com/slaymaker1907/baeuler>)

