



# Paul Legler

## Software Engineer

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[paullegler.github.io](https://paullegler.github.io)

## CAREER SUMMARY

I'm a software engineer with a passion for efficient and secure code. I graduated from UC Berkeley with a degree in Electrical Engineering and Computer Science. I previously interned for Northrop Grumman, and currently work for Lawrence Livermore National Laboratory. While in school, I was on a number of course staffs, including working as a Teaching Assistant for the Computer Security course. I'm interested in continuing to grow my skills as an engineer by working alongside talented coworkers.

## WORK EXPERIENCE

### Software Engineer | Lawrence Livermore National Laboratory

2018 - Present

Developer for physics simulation projects used by analysts. Responsible for a physics simulation software and a Python interface for highly structured files that store data for physics simulations.

#### Achievements:

- Parallelized simulation testing using Python, increasing efficiency on the order of number of processors
- Designed and implemented Python reader and interface for structured database containing simulations
- Improved the runtime of simulations by 2x through restructuring code in C and Fortran

#### Technologies used:

Python C Fortran High Performance Computing

### Software Engineer Intern | Northrop Grumman

2014-2017 Summers

Interned on 4 different satellite communication teams, 2 of which were classified. Developed numerous tools to improve the efficiency of my coworkers and to automate processes.

#### Achievements:

- Developed tools using Visual Basic and Python to help estimate key channel parameter values, as well as wrote a Python bit-framing method for encoding (2017)
- Designed software using Visual Basic streamline and standardize verification process of payload level requirements that will save the team 250+ hours per payload (2016)

#### Technologies used:

Python Visual Basic Matlab HTML/Javascript

### Teaching Assistant | University of California Berkeley

Fall 2017

Hosted sections and office hours every week, as well as contributed to development of homework, test questions, and class projects. Topics included security principals, secure coding practices, web security, network security, and cryptography.

Created a class project using Go that tested students' ability to create a secure file storage and sharing platform. Wrote a series of rigorous tests and received positive feedback from course staff and students.

#### Technologies used:

Go C Python

## SKILLS & TOOLS

### Languages

Python



Java



C



C++



Go



### Others

Agile Git Unit Testing

Javascript SQL Code Review

Coaching Rails

Teaching Penetration Testing

## EDUCATION

### B.S. Electrical Engineering and Computer Science

University of California Berkeley

2014 - 2018

### High School Diploma

Loyola High School

2010 - 2014

## INTERESTS

Basketball

Weightlifting

Coaching

Guitar

Video Games