

Derek Goss

dcgoss14@gmail.com

derekgoss.com

(919) 923-0553

EDUCATION

Cornell University • Ithaca, NY

August 2018 – present

Engineering Physics — School of Engineering

Harriton High School • Rosemont, PA

June 2018

International Baccalaureate Diploma — 4.98 GPA

EXPERIENCE

Synchro (iOS app) • synchrostopwatch.com

August 2017 – June 2018

- Worked with my cross country & track team to develop advanced stopwatch/logging app used in 10 countries and by NCAA teams
 - Responsible for iOS programming in Swift, cloud analytics integration, App Store launch, marketing, and press relations

Project Cognoma • University of Pennsylvania — Greene Lab

June 2017 – August 2017, Philadelphia, PA

Project Manager & Software Engineering Intern — Integrative Genomics Research

- Directed development and launch of Project Cognoma, a free online machine learning platform for cancer research
 - Wrote templating scripts for Jupyter notebooks
 - Designed and built a distributed machine learning worker queue system
 - Implemented a containerized and fault-tolerant computing architecture on Amazon EC2
 - Completed a Django REST API
 - Added automated building and testing procedures

Code for Philly • Organization

June 2016 – June 2017, Philadelphia, PA

Volunteer

- Led presentations and discussions on Cognoma (see internship), applications programming, cloud computing architecture, and container virtualization

Pickle (social networking app) • getpickleapp.com

2014 – present

- Built a multimedia social network designed for polling friends (for when you're "in a pickle"!)
 - Iterated several iOS and React Native apps, constructed scalable Kubernetes deployment on Google Cloud Platform, designed branding material

COMMUNITY SERVICE

Harriton Solar Research

September 2016 – February 2018, Rosemont, PA

- Wrote a comprehensive research paper analyzing a theoretical solar installation atop the roof of my high school
 - Used geospatial mapping, weather modeling tools, mathematical computation, and personal interviews with district officials to gather information
 - Received the highest grade level from the IBO for an IB extended essay; paper kept as an exemplar for school

Leukemia and Lymphoma Society Student of the Year

January – February 2017, Philadelphia, PA

- Directed communications and led as head chef for a major fundraiser dinner
- Team raised \$23,000 and placed 1st in competition

INVOLVEMENT

- Cornell Triathlon Club

2018 – present

- Harriton HS Cross Country & Track • Varsity Runner / Team Captain

2014 – 2018

SKILLS

App & Web Development • Cloud Computing • Project Management • Photography & Design

Python • Javascript • Swift • HTML/CSS • Xcode • React Native • Django • Git • Docker • Kubernetes