Derek Goss

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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

Greene Lab • University of Pennsylvania   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 worker system capable of retrieving jobs from a queue and running machine learning analyses
  - Implemented a containerized and fault-tolerant computing architecture on Amazon EC2
  - Completed a Django REST API
  - Added automated building and testing procedures

"Over this summer, Derek ended up not only integrating pieces that had been fully developed, but also finishing development on nearly all the components of the project. […] we've been going through Derek's work carefully to understand the systems that he built. We're repeatedly amazed by how much he accomplished and how thoughtfully he did it. […] he joined us and made meaningful and substantial contributions that will continue to influence our research program in the years ahead."
— Dr. Casey Greene

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

PROJECTS

Synchro (iOS App)   2018
synchrostopwatch.com
• Worked with my cross country & track team as well as local athletes and coaches to develop an advanced stopwatch/logging app used in 10 countries and by NCAA teams

Leukemia and Lymphoma Society Student of the Year   2017
• Team raised $23,000 and placed 1st in competition
• Directed communications and led as head chef for a major fundraiser dinner

Pickle (social networking app)
• 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

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