Derek Goss

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EDUCATION

Cornell University • Ithaca, NY   **August 2018 – May 2022**
Engineering Physics — School of Engineering

Harriton High School • Rosemont, PA   **June 2018**
International Baccalaureate Diploma — 4.98 GPA

EXPERIENCE

Formula SAE Racing Team • Cornell University   **Ithaca, NY • October 2018 – present**
• FSAE designs, manufactures, tests, and races a formula-style race car for competition
  - Trained in machine shop, TIG welding, CAD, rapid prototyping, basic composites manufacturing, and competitive driving skills
  - The team will be building a fully electric car beginning in 2018. Anticipating future work on accumulator packaging and design, ergonomics, and carbon fiber monocoque

Synchro (iOS app) • synchrostopwatch.com   **August 2017 – June 2018**
• Developed advanced stopwatch & logging app used in 10+ countries and by NCAA teams
  - Built iOS app, integrated cloud analytics, launched on the App Store, engaged in personal marketing, and facilitated press relations

Project Cognoma • University of Pennsylvania — Greene Lab   **Philadelphia, PA • June 2017 – August 2017**
Integrative Genomics Research: Project Manager & Software Engineering Intern
• Directed development and launch of Project Cognoma, a free online machine learning platform for cancer researchers analyzing correlations between gene-specific mutations and cancerous conditions
  - Designed and built user interfaces, cloud-based web services, and robust machine learning pipelines
  - Orchestrated contributions from cancer biologists, data scientists, designers, and open source volunteers

Code for Philly • Community   **Philadelphia, PA • June 2016 – June 2017**
• Led presentations and discussions on modern web applications and data processing, in addition to the technical theory and infrastructure behind Project Cognoma (see internship)

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 cloud deployment, designed branding material

COMMUNITY SERVICE

Harriton Solar Research   **Rosemont, PA • September 2016 – February 2018**
• Wrote a comprehensive research paper analyzing a theoretical solar installation atop the roof of my high school
  - Integrated geospatial mapping, weather modeling tools, mathematical computation, and personal interviews with district officials
  - Received the highest grade level from the IBO for an IB extended essay; paper kept as an exemplar for students

Leukemia and Lymphoma Society Student of the Year   **Philadelphia, PA • January – February 2017**
• 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 Team Captain   **2014 – 2018**

FOCUS

Physical Engineering • Energy Systems • App & Web Development • Project Management • Marketing & Design