

# KENNETH HARLLEY

404A Carl Becker House  
Ithaca, NY 14853-8401

kdharley.github.io

Cell: (607) 379-4445  
Email: kdh62@cornell.edu

## EDUCATION

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**Cornell University**, College of Engineering, Ithaca, NY  
Bachelor of Science, Computer Science  
GPA: 4.054 (Dean's List-All Semesters)

**Expected May 2021**

**SOS-Hermann Gmeiner International College (HGIC)**, High School, Tema, Ghana.

**June 2017**

Awards: Best Physics and Mathematics Student (June 2017), Certificate of Distinction and Honor Roll in University of Waterloo Math Competitions (Galois and Hypatia), IB Computer Science at a Higher Level (Final Grade: 7(Excellent))

**Relevant Courses:** *Intro to Computing using Python (A), Systems Engineering Project(A), Multivariable Calculus/Calculus for Engineers(A/A+), Object Oriented Programming with Data Structures (Enrolled), Discrete Structures (Enrolled)*

## ENGINEERING EXPERIENCE

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### Website Developer

**Jan. 2017 - Present**

- Created and Coded [Blossom Academy's website](#), SOS-HGIC's maintenance portal, [a personal portfolio site](#), and Teach for Ghana foundation's website using Python (Django), PHP, JavaScript/HTML, and Squarespace respectively.
- Implemented functions included validation of users; creation, deletion and modification of database entries; automated emails and assignment of security levels and privileges.
- Debugged and increased mobile responsiveness of Teach for Ghana(teachforgana.org) site with over 2000 users and over \$20,000 dollars in donations.

**Cornell University Sustainable Design**, Cornell University, Ithaca, NY, *Member*

**Feb. 2018 - Present**

- Developing high-efficiency HVAC (heating, ventilation and air conditioning) sensors using various tracking technologies and machine learning which will save Cornell 52,261kWh of energy per year with 20 team members
- Collaborated with 9 peers to design and produce a \$6000 solar trailer which will provide on-the-go sustainable energy, enabling Cornell Grounds to become carbon neutral.
- Constructed and installed shelves, charge controllers, batteries and solar panels on trailer with team.
- Earned an A for contribution to project team (Systems Engineering Project).

**Blossom Academy**, Kumasi, Ghana, Web Development Lead

**May 2018 - Present**

- Cooperate with 6 other leads to run first ever truly West-African Data Science Accelerator with connections to IBM to help reduce 1.21 million unemployed population in Ghana.
- Manage and coded company [website](#) with close to 500 current users.

**Teach for Ghana**, Teach for All, *Intern*

**May 2018- July 2018**

- Formulated a 43 slide PowerPoint and accompanying report analysing close to 96 different variable pairs which will impact 1327 Ghanaian students.
- Shortlisted, together with 6 colleagues, 32 fellows from over 600 applicants who will teach over 750 students.
- Programmed Python script which aggregated close to 100 survey responses stored in excel document using Panda.

## ADDITIONAL EXPERIENCE

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**PREPARE**, Cornell University Office of Global Learning, Ithaca, NY, *Mentor*

**Aug. 2018**

- Volunteered to facilitate adjustment to college life for students from over 44 countries.
- Organized sporting events, picnics and Q&A sessions for 223 new international students with 50 other peers.

## SPECIALIZED SKILLS

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**Programming Languages** (Python, Java, PHP, Visual Basic, SQL); **Relational Database Management Systems** (PostgreSQL, MySQL); **Certified Microsoft Office Specialist; Frameworks** (Django, Bootstrap)