

KENNETH HARLLEY

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EDUCATION

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)

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

Website Developer

Jan. 2017 - Present

- Created and Coded Blossom Academy's website(blossomacademy.co), SOS-HGIC's maintenance portal, a personal portfolio site(github.kennethharley.com), and Teach for Ghana foundation's website(tfgfoundation.org) using Python, 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 analyzing close to 96 different variable pairs.
- 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.

ADDITIONAL EXPERIENCE

PREPARE, Cornell University's 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 together with 50 colleagues.

SPECIALIZED SKILLS

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