

KENNETH HARLLEY

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science, Computer Science
GPA: 4.05 (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

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 site with over 2000 users and over \$20,000 dollars in donations by addressing site scalability, broken links and obsolete pages.

Cornell University Sustainable Design, Cornell University, Ithaca, NY, *Member* **Feb. 2018 - Present**

- Develop 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 controller, inverter, batteries and solar panels on trailer with team.
- Earned an A for contribution to project team (Systems Engineering Project).

Teach for Ghana, Teach for All, Accra, Ghana *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.

LEADERSHIP EXPERIENCE

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 generate company website with over 200 users and 1000 pageviews.

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

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