

KENNETH HARLLEY

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
GPA: 4.05 (Dean's List-All Semesters)
Bachelor of Science, Computer Science

Expected May 2021

SOS-Hermann Gmeiner International College (HGIC), High School, Tema, Ghana **June 2017**
Awards: IB Computer Science at a Higher Level (Final Grade: 7 (Excellent)), Certificate of Distinction and Honor Roll in University of Waterloo Math Competitions (Galois and Hypatia), Best Physics and Mathematics Student (June 2017)

Relevant Courses: *Intro to Computing Using Python, Systems Engineering Project, Multivariable Calculus, Object Oriented Programming with Data Structures, Discrete Structures*

ENGINEERING EXPERIENCE

Full Stack Website Developer

Jan. 2017 - Present

- Developed Blossom Academy's website using Python (Django), Bootstrap, HTML, CSS, and JavaScript.
- Implemented functions including validation of users; creation of database entries and automation of emails.
- Built, using PHP, Bootstrap, JavaScript, HTML, CSS, a local maintenance portal for SOS-HGIC.
- Incorporated functions including assignment of security levels and privileges; creation, deletion and modification of database entries and initiation and termination of sessions.
- Created an ePortfolio site and Teach for Ghana Foundation's website with Bootstrap and Squarespace respectively.

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

Feb. 2018 – Dec. 2018

- Engineer, using various tracking technologies and machine learning, high-efficiency HVAC (heating, ventilation and air conditioning) sensors to save Cornell 52,261kWh of energy per year in a team of 10.
- Develop, using Python, predictive algorithm to automate HVAC system using location and calendar data.
- Collaborated with 9 peers to design and produce a \$6,000 solar trailer which provides 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.

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

May 2018 - July 2018

- Formulated Python script which aggregated close to 100 survey responses stored in excel document using Pandas.
- Debugged and increased mobile responsiveness of Teach for Ghana site with over 2,000 users and over \$20,000 dollars in donations by addressing site scalability, broken links and obsolete pages.
- Compiled a PowerPoint and accompanying report analysing close to 96 different variable pairs which will impact 1,327 Ghanaian students.
- Shortlisted, together with 6 colleagues, 32 fellows from over 600 applicants who will teach over 750 students.

SPECIALIZED SKILLS

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

LEADERSHIP EXPERIENCE

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

May 2018 - Present

- Cooperate with 4 other leads to run first ever solely West-African Data Science Accelerator with connections to IBM to help reduce unemployed population of 1.21 million in Ghana.
- Manage and generate company website with over 250 users and 1,500 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.