**Kenneth Harlley**

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**EDUCATION**

**Cornell University,** College of Engineering, Ithaca, NY **Expected May 2021**

Bachelor of Science, Computer Science

**GPA: 4.129 (Dean’s List-All Semesters)**

***Relevant Courses:*** *Intermediate Design and Programming for the Web, Tools for Operations Research and Machine Learning, Computer System Organization and Programming, Object-Oriented Programming with Data Structures.*

**ENGINEERING EXPERIENCE**

**Google,** San Francisco, CA, *Engineering Practicum Intern* **May 2019 - Present**

* Processed data from a code-analysis system to surface relevant findings and link them to other systems.
* Wrote a complex SQL query to present the data on a proprietary visualization platform and kept the query

maintainable with functions and unit tests.

* Extended the code-analysis system (written in Go) to emit additional data.
* Prototyped displaying the data in a Web UI using Java, Guice, Soy, HTML and CSS.
* Practiced software engineering discipline with mercurial, code reviews, daily standups and bug tracking.

**Full Stack Website Developer**  **Jan. 2017 - Present**

* Developed Blossom Academy’s website which has over 8700-page views 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, JavaScript, HTML, CSS, SQL a website for Cornell’s Language Expansion Program’s website together with 4 peers.
* Incorporated functions including assignment of security levels and privileges; creation, deletion and modification of database entries; modifiable webpages and initiation and termination of sessions.
* Created an ePortfolio site, a local maintenance portal and a music catalogue with PHP, HTML, CSS, SQL, Bootstrap and JavaScript.

**Cornell University Sustainable Design,** Cornell University, Ithaca, NY, *Member* **Feb. 2018 – Dec. 2018**

* Engineered, 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.
* Developed, 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.

**SPECIALIZED SKILLS**

**Programming Languages (**Python, Java, PHP, SQL, Golang, HTML, CSS, C, R); **Frameworks** (Django, Soy, Guice);

**VOLUNTEERING 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 2300 users.

**Teach for Ghana,** Teach for All, Accra, Ghana, *Intern* **May 2018 - July 2018**

* Aggregated close to 100 survey responses with a self-formulated Python script, using Pandas, which will impact 1,327 Ghanaian students.
* 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.