# Kyle Spencer

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## EDUCATION

**THE PENNSYLVANIA STATE UNIVERSITY**
BS in Computer Science
Expected May 2019
Mathematics Minor
Dean's List (All Semesters)
Cum. GPA: 3.73 / 4.0

## LINKS

Github:// **kylecs**
LinkedIn:// **kylecspencer**
http://**kylecs.com**

## SKILLS

**PROGRAMMING**
Most Experience
Python • C • Java
Some Experience
C++ • Javascript • x86-64 Assembly

**CONCEPTS**
Full Stack Web Development • Agile •
Concurrency • REST • Systems
Programming

**TOOLS**
Git • Shell

## EXPERIENCE

**EATON** | Software Engineering Intern
May 2018 – August 2018
- Developed a **Python** program to monitor and collect usage data about the testing computers in use
- Implemented a webserver with **Flask** to provide an overview website with all testing computer statuses and usage histories
- Used Atlassian tools to structure Agile development

**PENN STATE UNIVERSITY** | Tutor
September 2016 – December 2016
- Taught fundamentals of computer science and **C++** to students
- Assisted students with projects and assignments

**PENN STATE BEAVER LIBRARY** | Intern
June 2016 - July 2016
- Built an online catalog of DVDs available for borrow using **Node.js** and **Express**
- Deployed the website to OpenShift Cloud Hosting

June 2015 - July 2015
- Used **Java** and **Selenium** to automatically gather data about Science Fiction books available for borrow
- Wrote script to format book data into book webpages and catagory webpages and upload them to the library's wordpress website

## PERSONAL PROJECTS

**KRYPT** (HackPSU Fall 2017 Hackathon, 3rd Place Winner)
- Used **Java**, the Coinbase API, and NFC to implement an android app allowing two people to exchange Bitcoin just by touching phones and confirming a transaction

**HTTP SERVER**
- Implemented an HTTP/1.1 server in **Rust**, with support for serving static websites

**FLASK FORUM**
- Used **Python** with **Flask** to create a customizable forum website
- Implemented support for users, accounts, posts, comments, and a subforum hierarchy

**KERNEL**
- Created a text-based x86 kernel with **C** and **IA-32 Assembly**
- Implemented a terminal driver, a keyboard driver, a PCI driver, and a command interface