

KYLE HOLMBERG

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[LINKEDIN.COM/IN/KYLEMH](https://www.linkedin.com/in/kylemh) | [GITHUB.COM/KYLEMH](https://github.com/kylemh) | [KYLEMH.COM](http://kylemh.com)

EDUCATION

+ Bachelor of Science, **Computer Science**

University of Oregon (June 2017)

- Minor: Business Administration

- Notable Courses:

Algorithms, Data Structures, Operating Systems, Software Engineering, and Database Issues.

SKILLS

+ **Programming Languages:**

Python, JavaScript, C, and C++

+ **Back-end:**

Flask, Django, RESTful APIs, Cordova, PostgreSQL, MySQL, SQLite

+ **Front-end:**

React.js, Sass, HTML5, CSS3, d3.js

+ **Infrastructure:**

Git, Command Line (Bash), Selenium, Webpack, Gulp.js, Jira, Heroku, Docker, Agile Development

+ **Graphic Design:**

Adobe Photoshop, Illustrator, and Experience Design

PROJECTS

+ **LOST Inventory Tracker** – lost-app.herokuapp.com

Independently engineered a full-stack, Flask web application used for reporting and moving assets between facilities. Utilized a custom Postgres database without an ORM (to highlight SQL syntax knowledge), and designed a RESTful API for user activation and deactivation.

+ **FPL Data Visualization** – ix.cs.uoregon.edu:5010

Designed an asynchronous Python web scraper capable of parsing 40 REST API endpoint requests per second. Outlined results of Premier League data with a Flask web application, a custom MySQL database, d3.js, and a Jupyter Notebook.

+ **Ringo Starr**

Managed team that developed an integrated system for a music-activated, dancing robot. Successfully connected a computer-on-module, a “Ringo” robot, microphone, and IR transmitter.

+ **Pthread-based Network Driver**

Wrote a multithreaded demultiplexor in pure C. Program is written for a Linux/Unix architecture and manages data with a scheduling packet buffer.

EXPERIENCE

+ **Software QA Engineer** – University of Oregon (Nov 2016 – Present)

Used Selenium to conduct unit and regression tests on multiple web applications. Currently porting Center on Teaching & Learning’s HiFi Reader iOS app (dibels.uoregon.edu/market/hifi) to Android.

+ **Front End Developer and Python Educator** – OperationCode.org (Jan 2017 – Present)

Designed the initial file structure and implemented various pages on OperationCode.org front-end redesign using React. Created videos and source code for teaching Python to 20+ veterans and spouses of veterans as a member of the non-profit, open-source group.

+ **Cadet** – U.S. Army ROTC and National Guard (Sep 2012 – Feb 2015)

Led groupings of up to 150 soldiers in coordinated maneuvers/trainings.