# Derek Li
## software engineer

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## >_ Projects

**LightDAR (Capstone) - Website**: lightdar.com; **Repository**: github.com/lybrian/eng4k

- IoT dynamic speed sign
- Gathers speed readings and conveys the data in a web application
- Built knowledge on **data processing, full-stack web development**, and **Linux** file system

**Flashcards - Repository**: github.com/deruga4/Flashcards

- Independently developed a flashcard command line application written in Python
- Used **State** design pattern and implemented a **text parser**

**Portfolio – Website**: derekl.ca

- Independently developed and maintaining an online Portfolio using Django, PostgreSQL, Bootstrap, CSS, and JavaScript
- Used **model-view-controller** design pattern and employed **responsive design** to improve **accessibility**

## 🔧 Skills

**Programming Languages:** Python, Java, JavaScript, C, C++

**Security and Pentesting**: Cryptography, PKI, TLS, HTTPS, Aircrack, nmap, hashcat, Setoolkit

**Back-end/Model:** Django, express (NodeJS), Rails, REST, Java Servlet, SQLite, MySQL, MongoDB

**Front-End:** AngularJS, JavaScript, CSS, Bootstrap, JSP

**Operating Systems:** Windows 7/8/10, MacOS, **Ubuntu Linux (current)**

## 💼 Experience

**Student Technology Assistant (Sept. 2015 - Present)**
**eServices, York University**

- Performed website migration from plain HTML to WordPress with responsive themes. Ensured **accessibility** of information to the **AODA** standard. Performed **quality assurance** check on web content.
- Built **interactive and dynamic web pages** with Wordpress Toolset. Employed responsive design to ensure **accessibility** and **multi-device compatibility**.
- Learned **AngularJS** and **Bootstrap** in the process. Allows an easier development process and **enhances functionality of interactive web pages.**
- Wrote **fully tested** PHP functions to convert and import data.

## 🎓 Education

**York University, ON – BEng, Software Engineer (Sept. 2016 – Present)**