

# Derek Li

## software engineer

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### >\_ Projects

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

Dynamic speed sign that uses LIDAR instead of traditional RADAR. Developed data processing and transmission using serial connection between Arduino and Raspberry Pi running a web server. Implemented Let's Encrypt TLS digital certificate on project website. Python, C, Microcontrollers.

**Flashcards - Repository:** [github.com/deruga4/Flashcards](https://github.com/deruga4/Flashcards)

Independently developed a flashcard command line application. Implemented a text parser and state design pattern. Python, state design pattern.

**Portfolio – Website:** [derekli.ca](http://derekli.ca)

Independently developed and maintained online Portfolio deployed on Heroku PaaS. Django, SQLite, PostgreSQL, Bootstrap, CSS, JavaScript.

### 🔧 Skills

**Languages:** Python, Java, JavaScript, CSS (less)

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

**Web Frameworks:** Django, NodeJS, express, RESTful APIs, Java Servlet, JSP

### 👛 Experience

**Student Technology Assistant (Sept. 2015 - Present)**

**eServices, York University**

Worked as a Wordpress developer, utilizing many tools (e.g. custom types, taxonomies, jQuery) to create views on web pages customizable for non-technical individuals.

- Assisted Faculty of Liberal Arts and Professional Studies with a wide range of web projects
- Provided tech support for other employees
- Created user manuals
- Presented in progress report meetings

### 🎓 Education

**York University, ON – Beng, Software Engineer**

Sept. 2016 – Present

Expected Graduation: June 2019