

LUKE WEBER

// Computer Scientist
// 7 Years Experience
// @lukedottec



Website

// lukedottec.github.io/Website



GitHub

// github.com/lukedottec



LinkedIn

// linkedin.com/in/lukedottec



Email

// lukedottec@gmail.com



Phone

// (916) 799-4473

Environments

Python *****
JavaScript (ES6) *****
Android *****
Java ***
C/C++ ****
Linux (Arch) *****

Skills & Pursuits

Machine Learning
Artificial Intelligence
Algorithms & Systems
Web Development

> Education

B.S. COMPUTER SCIENCE

August 2013 – May 2017

// 5x President's Honor Roll Student, Washington State University (3.66 GPA)

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|---------------------------|-------------|-------------------------------|-------------|
| • Machine Learning | // CptS 570 | • Operating Systems | // CptS 460 |
| • Structured Prediction | // CptS 580 | • Algorithm Design & Analysis | // CptS 350 |
| • Artificial Intelligence | // CptS 440 | • Databases | // CptS 451 |

> Experience

DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING

May, 2016 – June, 2017

// Android Application Developer & Research Assistant, Washington State University

- Assembled AIRPACT-Fire mobile app (in parallel to website) to run on 90% of all Android phones and tablets; facilitated alpha and beta testing to government users.
- Developed local databases in XML and SQL, app-server communication stream, and custom, dynamic, and responsive user interface.
- Repaired broken, pre-existing application to accompany upgraded data.

CENTRAL ACCESS CENTER

January – March 2013

// Desktop Application Developer, Central Washington University

- Assisted learning-disabled students with reading 50+ preprocessed textbooks.
- Converted text-to-speech, as part of larger Java-based Swing application, with 0% trial error.
- Utilized PDF-to-text conversion to simplify textbook content by near 2/5 (approximation).

> Projects

For 15+ more, see [GitHub.com/lukedottec](https://github.com/lukedottec)

MATHTRIP

December – January 2015

// Lead Contributor, [GitHub.com](https://github.com)

- Built JavaScript-driven web app using ProcessingJS visualization library and jQuery.
- Harmonized Newtonian physics with objects, including orbital mechanics, collision detection, propulsion, etc.
- Used factory and observer design patterns as well as polymorphism and ES6 standards in ~2,000 code lines.

MOUNT BAKER BROS

July – August 2012

// Web Application Developer, Ellensburg, WA

- Provided Mount Baker visitors with 98%+ accurate weather stats using Google App Engine and Google Cloud.
- Stored and queried up to 5 measures of weather data with MySQL database.
- Fetched, parsed, and saved XML documents from NOAA database with less than 1% data discrepancy.

EVENTS: [Crimson Code](#) 2017, [Microsoft Def HacksQ](#) 2017, [Crimson Code](#) 2016, [WSU Hackathon](#) 2015