

# Trevor Leake

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## Education

### Portland State University

Earning three bachelor's of science degrees in computer science, mechanical engineering, and math.

## Experience

### Cambia Health Solutions, AI Innovations Engineer

June 2017 - June 2018

Led design and development work on machine learning solutions for an iOS app which provides insight into healthcare.

#### Responsibilities

- Designing ML algorithms to novel problems atop dirty, high-dimensional data.
- Solo presentations to CIO, VPs, and others on how our learning systems work.
- Work in Tensorflow, Torch, Sklearn, Keras, DataRobot and others.
- Engaging and understanding our business team's needs to ensure good products.
- Creating, testing, and maintaining deployed models using AWS tools.

### Eye Symptom Diagnosis App, Lead Researcher

Nov 2015 - Jan 2017

Created an app around deep convolutional networks which diagnosed diseases which present symptoms in the eye. The project was funded by DARPA and UNST.

#### Responsibilities

- Adapting and implementing convolutional network architectures from cutting edge research.
- Robustly evaluating model performances based on limited dirty data.

### Bythos Environmental, Lead Software Engineer

Sept 2014 - Aug 2015

Created an amphibious drone to collect remote water samples for laboratory analysis. The project was funded through PSU and a statewide innovation competition. Our product has been used by the EPA, Army Corps. of Engineers, USGS, and others.

#### Responsibilities

- Wrote all autonomous and controlled flight software.
- Design the drone's lander and outer hull for compliance with water sample collection standards.
- Designed and performed extensive experiments which support the safety and validity of the drone.
- Wrote software for collection and monitoring of water samples.

## Languages

C++

Python

Javascript

Java

Matlab

## Tools

Tensorflow

DataRobot

Keras

Caffe

Torch

Sklearn

SQL

NoSQL

Hadoop Pig

Neo4j GraphDB

AWS Batch

AWS Lambda

AWS EMR

GCP DataFlow

GCP BigQuery

GCP Kubernetes