

Trevor Leake

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Education

Portland State University

Bachelor's of science degrees in computer science, mechanical engineering, and math.

Experience

Cambia Health Solutions, AI Innovations Engineer

June 2017 - Now

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

Responsibilities

- Designing novel ML algorithms to solve problems atop dirty, high-dimensional data.
- Creating, testing, and maintaining deployed models using AWS tools.
- Managing and overseeing the work of several PhD AI engineers.
- Solo presentations to CIO, VPs, and others on how our learning systems work.
- Understanding our business needs to drive innovation within the engineering team.
- Designing and implementing entire user experience flow for presentation of ML insights.

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

Javascript

C++

Python

C#

Java

Matlab

Tools

DataRobot

Tensorflow

Sklearn

Keras

Caffe

Torch

Neo4j GraphDB

Hadoop Pig

NoSQL

SQL

AWS Lambda

AWS Batch

AWS EMR

GCP Kubernetes

GCP BigQuery

GCP DataFlow

React Native

Node.js

Docker

React

Flask