

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; took very complex stuff and made it understandable & predictable.

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 AI engineers.
- Presentations to CIO, VPs, and others on how our learning systems work.
- Understanding business needs to drive innovation within the engineering team.
- Designing and implementing user experience 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 Enivonmental, Lead Software Engineer

Sept 2014 - Aug 2015

Created an amphibious drone to collect remote water samples for labratory 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.

Good With

Javascript

C++

Python

C#

Java

Matlab

ML

Tensorflow

NLTK

Sklearn

Keras

DataRobot

Frontend

React

Vue

Flask

Data

Neo4j GraphDB

Spark

NoSQL

SQL

Azure Data Lake

Greenplum

Cloud

GCP Kubernetes

GCP BigQuery

GCP DataFlow

AWS Lambda

AWS Batch

AWS EMR