

Evan Czyzycki

RESEARCH ASSISTANT · SOFTWARE ENGINEER

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Summary

I am a Computer Science PhD student at UCLA and a research assistant in the eHealth Lab researching opportunistic learning and AI systems in health. I also work on Wellnest, a guided voice journal designed to improve mental health using cognitive behavioral therapy. I graduated *magna cum laude* with a BSE in Computer Science from the University of Michigan, where I worked in the MLD3 Lab investigating machine learning applications in microbiology and immunology.

Education

UCLA

PHD COMPUTER SCIENCE

Los Angeles, California

2019 - Present

University of Michigan

BSE COMPUTER SCIENCE, *magna cum laude*

Ann Arbor, MI

2015 - 2018

Experience

UCLA

RESEARCH ASSISTANT - EHEALTH RESEARCH LAB

Los Angeles, CA

September 2019 - Present

- Currently researching federated machine learning on edge devices and opportunistic learning in high-dimensional data streams.

University of Michigan

RESEARCH ASSISTANT - MLD3 RESEARCH LAB

Ann Arbor, MI

Jan 2019 - July 2019

- Implemented image classifiers in PyTorch to predict C. diff. infection severity from mouse tissue images.
- Identified undiagnosed periods of probable exacerbation in cystic fibrosis patients using random forests.

Narrative Science

SOFTWARE ENGINEERING INTERN - INCUBATION

Chicago, IL

May 2018 - August 2018

- Designed, implemented, deployed a natural language generation system in Python (SpaCy, NLTK) for personalization of generated text using aggregate user data.
- Implemented the containerization and cloud deployment of several prototype systems using Docker and AWS.
- Developed automated deployment pipeline for prototype systems using Docker, Jenkins, and AWS.

Narrative Science

SOFTWARE ENGINEERING INTERN - DEVOPS

Chicago, IL

May 2017 - August 2017

- Investigated serverless workflow for infrastructure tooling.
- Designed, implemented, and deployed serverless infrastructure monitoring systems using React and AWS Lambda.
- Developed automated git tag regulation system using Jenkins.

Projects

Wellnest (<https://wellnest.co>)

WELLNEST

Wellnest is a guided voice journal that uses cognitive behavioral therapy techniques to promote mindfulness and introspection, improving the mental health of our users.

Automated Histology for C. diff. Infection

MLD3 RESEARCH LAB

Using computer vision techniques, we are able to automate visual analysis of tissue samples in order to reduce human error in histology and increase sample analysis throughput.

Distributed Machine Learning on the Edge

EHEALTH RESEARCH LAB

We are investigating methods of simultaneous shared learning in many distributed machine learning models on edge devices *without the use of a central model*.