Scott Werwath

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EDUCATION

University of California, Berkeley   September 2015–December 2018
B.S. Electrical Engineering & Computer Sciences   *GPA (major): 3.80, GPA (overall): 3.65*

EXPERIENCE

Fathom Health   March 2020 −Present
Software Engineer   *San Francisco, California*

Owned and led monitoring, alerting and system resiliency projects and on-call processes to ensure compliance with customer SLAs as production ML systems scaled over 1000x

Created production deep learning NLP models trained on mutli-terabyte datasets of medical documents, including dataset creation, cleaning, synthetic example generation, model tuning, training, and evaluation, and automated checks on model predictions in production to ensure accuracy

Designed engineering processes to rapidly integrate with new enterprise customers as company scaled

Technology Used: Python, Spark, Airflow, GCP, Tensorflow, Kubernetes

The Human Diagnosis Project   January 2019 −Present
Software Engineer   *San Francisco, California*

Created online models to measure the clinical reasoning abilities of physicians as they solved patient cases

Overhauled recommendations engine to serve teaching cases to physicians who would find them challenging and engaging, and to triage patient cases to physicians who would be best suited to solve them

Rewrote core parts of mobile app and backend API to allow use in offline/low internet conditions

Technology Used: Python, Django, Docker, GCP, Tensorflow, React Native

Facebook   May 2018 −August 2018
Software Engineering Intern   *New York, New York*

Built on-client caching system for iOS clients of a cross-platform UI framework to reduce amount of source code sent over the network

Added type system to framework to extract types in Flow JavaScript and statically enforce cross-language type safety between serverside Hack code and the JavaScript it interacts with

Technology Used: Hack, Objective C, C++, GraphQL, OCaml, JavaScript

Facebook   May 2017 −August 2017
Software Engineering Intern   *Seattle, Washington*

Designed and built service to parse binaries, cache their symbol tables, and efficiently serve requests for symbolization of address stacks

Integrated new service into profiling tool deployed across every host in Facebook's fleet, reducing its p90 memory usage by 20% and allowing for the use of more accurate sampling techniques

Technology Used: C++, Thrift

Google   January 2017–May 2017
Software Engineering Intern   *Mountain View, California*

Developed NLP techniques to disambiguate entity mentions in unstructured text based on linguistic context

Wrote large-scale data processing pipelines for example generation, model training, and model evaluation

Technology Used: C++, Python, NumPy, MapReduce, TensorFlow

SolarCity   June 2016–August 2016
Software Engineering Intern   *San Francisco, California*

Designed and built Node.js WebSocket microservice to enable real time interaction and data streaming between customers and sales representatives

Refactored .NET routes and database schemas, reducing average customer-facing API response time by 75%

Technology Used: C#, .NET, Node.js, Websockets, SQL, Redis

RESEARCH

UC San Francisco, Department of Radiology   September 2017–January 2019

Designed and implemented NLP model to automatically categorize free-text radiology reports based on whether or not they contain urgent findings

Technology Used: Python, Keras, Tensorflow, NLTK