Scott Werwath

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EDUCATION

University of California, Berkeley September 2015—Expected May 2019
B.S. Electrical Engineering & Computer Sciences *GPA (major): 3.80, GPA (overall): 3.65*

WORK EXPERIENCE

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 that code and serverside Hack code which interacts with the JavaScript
Technology Used: Hack, Objective C, C++, GraphQL, OCaml, JavaScript

Facebook May 2017 —August 2017
Software Engineering Intern *Seattle, Washington*
Designed and built centralized 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 (division of Tesla) 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—Present
Designed and implemented NLP model to automatically categorize free-text radiology reports based on whether or not they contain urgent findings
Training recurrent neural language models on medical texts and transfer-learning ICD coding classifiers
Technology Used: Python, Keras, Tensorflow, NLTK

UC Berkeley, Energy & Resources Group September 2016—December 2016
Developed integrated assessment modeling library for use by the White House, EPA, and other federal bodies to estimate the economic and environmental effects of policy decisions
Technology Used: Julia, MPI, AWS