

Scott Werwath

(804) 380-1188 ◊ sbw@berkeley.edu ◊ swerwath.com

EDUCATION

University of California, Berkeley
B.S. Electrical Engineering & Computer Sciences

September 2015—Expected December 2018
GPA (major): 3.80, GPA (overall): 3.65

WORK EXPERIENCE

Facebook

Software Engineering Intern

May 2018 —August 2018

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

Software Engineering Intern

May 2017 —August 2017

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

Software Engineering Intern

January 2017—May 2017

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)

Software Engineering Intern

June 2016—August 2016

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