# Scott Werwath

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#### TECHNICAL SKILLS

Languages C++, Python, C, C#, Java, Javascript

Frameworks Tensorflow, MapReduce, NumPy, MPI, Node, .NET

Misc. Git, Deep Learning, NLP, WebSockets, Relational Databases

### **EDUCATION**

# University of California, Berkeley

September 2015—Expected May 2019 GPA (major): 3.9, GPA (overall): 3.6

B.S. Electrical Engineering & Computer Sciences

#### WORK EXPERIENCE

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

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

**CITRIS Foundry** 

September 2016—December 2016

Engineering Fellow

Berkeley, California

Prototyped embedded systems for Numericcal, a DSP and controls startup in the Foundry accelerator Implemented and optimized linear algebra algorithms for high-performance embedded control systems

#### 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%

# RESEARCH

### UC San Francisco, Institute for Computational Health Science

September 2017—Present

Writing deep learning models to locate and classify potential lung tumors in 3D Chest CT images Creating multi-terabyte data pipelines on AWS for data generation, preprocessing, training, and evaluation

#### 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

Augmented Julia library to allow users to run Monte Carlo simulations across computing clusters

#### UC Berkeley, Computer Sciences Division

January 2016—June 2016

Developed novel algorithm for solving arbitrary abstract strategy games on distributed systems with MPI Deployed algorithm to the Savio High Performance Computing Cluster for testing and analysis