

CHARLES R. PROCTOR

WORK EXPERIENCE

SEPT. 2017 - PRESENT

GOOGLE

Software Engineer

The click-to-call mobile ad format allows users to call an advertiser directly. Routed through Google, the call is tracked in order to provide attribution for the advertisers. Within this team, I worked on detecting and reporting various types of conversions and other call-related metrics to the advertisers. My projects included:

- Adding support for a call-based charging model (as opposed to standard click-based models),
- Updating data processing pipelines to display extension-level call reporting in AdWords, and
- Using TensorFlow-based machine learning models to identify high-fidelity conversions from call recording transcripts.

SUMMER 2017

UPFOR

Software Engineer

UpFor was a start-up focused on connecting users with nearby friends for offline activities. As part of Yale Entrepreneurial Institute's summer fellowship, I helped design and implement a Swift-based iOS application and a Node.js / Firebase backend.

SUMMER 2016

FACEBOOK

Software Engineer Intern

Programming mostly in Python, I worked on Data Infrastructure at Facebook HQ in Menlo Park, California. My projects included:

- Building a pipeline to predict and bound future job resource utilization from historical run-time data, and
- Outlining a framework for testing distributed data processing pipelines written in Python.

FALL 2015

CS50 AT YALE

Teaching Assistant

CS50, offered at Yale for the first time in Fall 2015, is an "introduction to the intellectual enterprises of computer science and to the art of programming."

JULY 2014 - DEC. 2015

PUSHBYTE DEVELOPMENT GROUP

Co-Founder and Partner

Pushbyte was a group of Yale undergraduate developers working to design and engineer web and mobile experiences. I developed iOS apps, Express backends, and Angular frontends.

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EDUCATION

2013-2017 **Yale University**
B.S. IN COMPUTER SCIENCE WITH
DISTINCTION. CUM LAUDE.
New Haven, Connecticut

2007-2013 **Hopkins School**
New Haven, Connecticut

COURSES

CS Intelligent Robotics
Language and Computation
Automated Decision Systems
Computer Networks
Operating Systems
Distributed Systems
Compilers and Interpreters
Cloud Networking and Computing
Data Mining and Machine Learning

MATH Linear Algebra
Differential Equations
Vector Analysis
Probability Theory
Theory of Statistics
Stochastic Processes

AWARDS

2014 **YHack Yo API Prize**
Yale University

2013 **First Place, Website / Web App**
Americas Datafest Hackathon

PROGRAMMING LANGUAGES

INTERPRETED JavaScript, Python
COMPILED C / C++, Go, Java, Swift