

DANIEL BALLE

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EDUCATION

Stanford University 2018

Stanford, United States · stanford.edu · Graduate Business School
Master Thesis in Algorithmic Game Theory

Swiss Federal Institute of Technology in Zurich 2016 - 2018

Zürich, Switzerland · ethz.ch · School of Computer Science
Master of Science · GPA: 5.60/6

Carnegie Mellon University 2014 - 2015

Pittsburgh, United States · cmu.edu · School of Computer Science
International Exchange Scholarship awarded by EPFL · GPA: 3.56/4

Swiss Federal Institute of Technology in Lausanne 2012 - 2015

Lausanne, Switzerland · epfl.ch · School of Computer Science
Bachelor of Science · Class rank: 2nd of 150 students · GPA: 5.56/6

PROFESSIONAL EXPERIENCE

Facebook Software Engineering Intern Fall 2017

Menlo Park, United States · facebook.com · Core App Monetization
· Improved B2P communication by introducing Lead Forms into Messenger & Page Inbox

Yelp Backend Engineering Intern Winter & Spring 2016

San Francisco, United States · yelp.com · ReaderX & Ads Backend Team
· Created a collection service providing an interface for users to group and organize business-related items.
· Migrated ad campaign management components to pagelets for performance and code structure improvements.

ACADEMIC PROJECTS

x86 Unix Kernel 2015

Carnegie Mellon University, Operating System Design and Implementation
· Design and implementation of a Unix-like kernel for x86 Architecture
· Multiple virtual memory address spaces via paging, preemptive multitasking, and important system calls

DPLL-Algorithm based SAT-Solver 2014

Carnegie Mellon University, Computational Discrete Math
· A solver for the boolean satisfiability problem based on the DPLL-Algorithm
· Using pure elimination and unit propagation with a variety of branching heuristics

PERSONAL PROJECTS

· Menubar app for shared Spotify sessions – NodeJS, Socket.io, AppleScript, Swift, nginx
· Facebook Messenger bot for reminders – Flask, PostgreSQL

SKILLS

Coding Python · C++ · C · Java · Scala · Javascript · React · Assembly · Django · Flask · NodeJS · PHP
SQL · MongoDB · nginx · Shell · VHDL · LaTeX

Applications Adobe Creative Suite · Microsoft Office · Apple iWork · Terminal · Git

Systems Mac OS X · Microsoft Windows · Linux

Languages German (native) · French (fluent) · English (fluent)