

DANIEL BALLE

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EDUCATION

Swiss Federal Institute of Technology (ETH Zurich) 2016

Zürich, Switzerland · ethz.ch · School of Computer Science

Master of Science

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 (EPFL) 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

Yelp Backend Engineering Intern Winter 2016

Yelp HQ · San Francisco, United States · yelp.com

· Created a collection service providing an interface for users to group and organize business-related items.

· Built into a SOA framework using Pyramid, uWSGI and SQLAlchemy with MySQL database.

Reference: Jarvis Johnson · jarvis@yelp.com

CERN Intern Summer 2013

European Organization for Nuclear Research · Geneva, Switzerland · cern.ch

· Developed a social network on Web and Mobile for people at CERN to combine social interactions and security

· Built in PHP, NodeJS and Javascript, using LDAP databases and XMPP messaging

Reference: Dan Noyes · dan.noyes@cern.ch

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

· Supplying device drivers for the keyboard, the console, and the timer

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

· List based task management webapp – Django, PostgreSQL

· Vertical platform game for Android – libGDX, Java, Android Studio

· Personal portfolio website – NodeJS, nginx

· Academic social network for EPFL students – NodeJS, MongoDB, nginx

· Online bookmarking dashboard – PHP, Javascript, MySQL

SKILLS

Coding Python · C · Java · Javascript · Assembly · Django · NodeJS · PHP · CSS · HTML · Scala
SQL · MongoDB · 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)