

DAVID KAUFMAN

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EDUCATION

Massachusetts Institute of Technology (MIT)

B.S. in Computer Science & Electrical Engineering

Overall GPA: 4.8/5.0

Robot Planning Algorithms	Introduction to Machine Learning	Microcomputer Laboratory
Computer Systems Security	Power Electronics Laboratory	Design and Analysis of Algorithms
Linear Algebra	Introduction to Algorithms	Signals and Systems

February 2016

Cambridge, MA

Coursera

Machine Learning, Andrew Ng/Stanford University

Deep Learning Specialization

Montgomery Blair High School

Overall GPA: 4.0/4.0

April, 2017

Currently Enrolled

June 2012

Silver Spring, MD

EXPERIENCE

Formlabs

Software Engineer, intern then full time

January, June-August 2015; April 2016 - present

Somerville, MA

- Researched novel approaches to support placement to design an improved automatic support placement algorithm, including physics simulations and stippling-based support point distribution
- Designed and implemented a crash-tolerant Linux update system
- Diagnosed and mitigated 3D printer network connectivity problems
- Rearchitected the desktop application to accommodate many printer types

Yelp

Software Engineering Intern

June-August 2014

San Francisco, CA

- Designed and engineered infrastructure for offline analysis of quarantined content.
- Researched automated similarity-based classification of new types of content.

Vecna Technologies

Robotics Intern

June-August 2013

Cambridge, MA

- Remodeled and programmed a wireless control system to allow Vecna's QCBot to switch seamlessly between wireless access points.
- Profiled and optimized Vecna's Java robotics simulation framework.

TECHNICAL SKILLS

Programming languages

C++, Python, Java, Bash

Computer Security

Maintain services on Unix-based servers

Identify and eliminate security holes in existing services

PERSONAL PROJECTS

Detailed documentation at <http://davidkaufman.nfshost.com/projects.html>

MITring/Arphid (current)	Stand Up Paddle Board (current)	VLC live music lyrics (2017)
B-Rep CAD Kernel (2016)	Craigslist Bot (2016)	Lock Impressioning (2015)
RFID Reader (2015)	Loft CAD Generator (2015)	AwesomeWM Volume Widget (2014)
Connect Four robot (2014)	Robotic guitar player (2014)	Simulator for lego robots (2012)