

Matthew E. Olson

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Education

Duke University

Durham, NC

ELECTRICAL AND COMPUTER ENGINEERING (B.S.E.), PHYSICS (B.A.), AND COMPUTER SCIENCE (MINOR)

2013-2017

- Cumulative GPA: 3.8
- Relevant Coursework: Data Structures and Algorithms in Java, Computer Architecture, Quantum Physics, Circuits
- Academic Chair of Pi Kappa Phi Fraternity. Member of Club Soccer Team. HackDuke participant

Kent Denver School

Englewood, CO

CUM LAUDE SCHOLAR, CLASS OF 2013 MATH AND SCIENCE AWARD

2009-2013

- Cumulative GPA: 4.3
- Editor-in-Chief of newspaper. Authored 18 articles. Managed 40 members. CHSPC Award.
- Soccer Captain. State Finalist. Deso Leadership Award. All-Conference. 33 career varsity goals.

Experience

Chesapeake Technology International

Denver, CO

SOFTWARE ENGINEERING INTERN

Summer 2015 - Summer 2016

- Worked on RaptorX, a real-time visualization and control software for military operations
- Derived algorithm for cell tower usage, applied to data in RaptorX, and created elements to visualize electromagnetic spectrum
- Fixed bugs and improved code to improve military control of assets during operations

Echostar Corporation

Englewood, CO

ENGINEERING INTERN IN FAILURE ANALYSIS DEPARTMENT

Summer 2014

- Tested and improved the functionality of automated testing devices for digital video recorders
- Found and replaced faulty components on digital video recorders using circuit schematic and multimeter

Secure64 Software Corporation

Greenwood Village, CO

SOFTWARE ENGINEERING INTERN

Summer 2013

- Worked on Gr8Privacy, a file sharing encryption software. Presented demos and helped raise \$1.15 million in funding
- Designed and set up web page using WordPress. Found bugs and improvements in Gr8Privacy software

Independent Physics Laboratory

Durham, NC

MEMRISTOR AND TUNNEL DIODE RESEARCH

2015 - Present

- Derived switching characteristics of stochastic nonlinear electronic transport and designed switching circuit with tunnel diode
- Tested noise induced switching on memory devices, homemade memristors, and neuronal transport

Duke University Engineering Department

Durham, NC

TEACHER'S ASSISTANT

2014-2016

- Led lab, recitation, held office hours, and graded assignments for Computer Science 250 and Engineering 103

Technical Skills

- Java, C, Python, Swift, Objective-C, C++, MIPS Assembly, Matlab, Labview, HTML, CSS, Git, Linux, WordPress
- Graphic Design. Proficient with Illustrator, InDesign, and Photoshop. Made all designs for projects

Side Projects

- Created Dare Devil: A social media platform for dares. Facebook integration for friends and Stripe integration for crowdfunding.
- Relaxed Spider! to the Mac App Store: Simple spider solitaire game for the Mac. Built in 5 days.
- Southwest Checkin: Python script used to check into southwest flight and get the best boarding position
- Duke Enroll: Automated python script used to enroll a student in classes, so the student gets classes before they fill up
- Pipelined Processor: Built in Verilog HDL for FPGA with multiplier/divider, ALU, and register file

Personal

- Hobbies include philosophy, investing, travel, rock climbing, fantasy football, soccer, basketball, tennis, and Ping-Pong
- Duke Basketball fan (tenting for 4 weeks), Rubik's cube solver (90 seconds), Juggler (almost 4 balls), Half-Marathon Finisher (1:31)