

Objective:

To offer my problem-solving skills and software development knowledge as a software engineering intern and to continue pursuing and cultivating my passion for computer science as a student.

Academics:

Columbia University

2015 - Present

Overview: School of Engineering and Applied Sciences. Bachelors of Science in Computer Science. Expected graduation: 2018.

Purdue University

2014 - 2015

Overview: GPA: 3.94/4.0, 78 credit hrs. Honors College. Presidential Scholarship.

Spring 2015 Classes: CS 250: *Computer Architectures*, CS 251: *Data Structures and Algorithms*, MA 265: *Linear Algebra*, STAT 350: *Statistics*, PHIL 301H: *Honors History of Ancient Philosophy*, HONR 19902: *The Evolution of Ideas: The Nation*, HONR 299: *The Rise and Fall of the American Empire*.

Fall 2014 Classes: CS 182: *Foundations of Computer Science*, CS 240: *Programming in C*, MA 261: *Multivariate Calculus*, ECON 251: *Microeconomics*, PHIL 150: *Principles of Logic*, HONR 19901: *Evolution of Ideas: The Mind*.

Park Tudor School

2010 - 2014

Overview: GPA: 4.191 (weighted). National Merit Finalist. National AP Scholar with Distinction. Cum Laude. Global Scholar.

Skills:

Programming Languages

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|----------------|----------------------|----------|
| - Java | - Javascript, jQuery | - Python |
| - C / C++ | - Slim, Sass | - R |
| - ASP.Net / C# | - Ruby on Rails | - Matlab |

Other: Windows, Web, Linux, UNIX, Git / Github, IntelliJ, Eclipse, Visual Studio, Android Developer, Filezilla, PuTTY.

Work Experience:

Software Engineering Intern at Tinderbox

2015

Interned as a full-stack software engineer; worked on new features, bug fixes, and testing. Ruby on Rails, jQuery, Slim, Sass, Ember.js, MySQL, Git / Github, Agile SCRUM (Jira)

- Played lead on a project to refactor Groups & Permissions.
- Unified and developed new workflows for bulk archiving documents and assets.
- Wrote Rspec tests to increase coverage of controllers.

Tempo @ HackIllinois

2015

Worked with three classmates to build a Pebble and Android music application that tracks how fast you walk and plays music with a similar tempo (before Spotify did it!). Java (Android), C, Javascript, Echonest, Spotify.

Web Development

2012 - 2014

PTCD (2012 - 2013): Led a team of three to develop an online chemical database and mobile web app for Park Tudor School. Allowed teachers to use their phones to scan QR codes and "withdraw" chemicals from the database. HTML, CSS, ASP.Net, C#, jQuery, SQL.

Scheduler HD (2013): Designed and created a scheduling web app that allows students at Park Tudor to upload and compare their schedules. HTML, CSS, ASP.Net, C#, SQL, Regex, AJAX.

Michael and Joy's Wedding (2014): Built a website for my sister's wedding. HTML, CSS, ASP.Net, C#.

Research

2011 - 2014

Computational Chemistry Research (2013 - 2014): Built an algorithm to compare molecules (antihistamines) based on fingerprint and molecular descriptor analysis. Siemens Competition Semifinalists. Python, Pybel, OpenBABEL, Avogadro, Numpy, Scipy.

Autonomous Vehicle Research (2013 - 2014): 2 year research project that concluded in a review paper of the current state-of-the-art and a one and a half hour long presentation.

Biomedical Engineering Research (2011 - 2012): Helped design cell segmentation and tracking algorithm to better analyze angiogenesis from growth-factor delivering scaffolding. Matlab, Octave.

Leadership / Clubs:

Purdue ACM SigAPP (App Development) (2014 - 2015): Developing SafeWalk for Android and the Official Purdue App.

Purdue ACM Vice President (2015): Duties include organizing tech talks and communicating with corporate sponsors.

Computer Science TA (2015): Undergraduate teaching assistant for CS 240: *C Programming Language* (Spring 2015 term).

Purdue Triathlon Club (2014 - 2015): Training for collegiate triathlons during the spring and summer.

CyberPatriot (2012 - 2014): Nationwide high school cyber defense competition. Nationals in Washington DC (2014). Team Captain.