JONATHAN W. PFEIL

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Permanent Address: 208 Deaver Rd, Wyncote, PA 19095

OBJECTIVE	Seeking a Summer 2015 Internship
EDUCATION	**Case Western Reserve University**, Cleveland, OH Bachelor of Science, School of Engineering, Computer Science, May 2016 Masters of Science, School of Engineering, Computer Science, May 2016 Cumulative GPA: 3.86/4.0
RELEVANT COURSES	**Undergraduate CS**: Data Structures, Algorithms, Compilers, Databases, Artificial Intelligence **Graduate CS:** Networks, Algorithms, Data Mining, Matrix Data Mining, Machine Learning **Mathematics**: Calc I-IV, Probability, Linear Algebra, Discrete Math, Game Theory

WORK EXPERIENCE

Microsoft, Bellevue, WA
Software Development Engineer Intern, Summer 2014
- Created mathematical model for latency estimation in Bing's index generation pipeline
- Wrote application to snapshot performance of each component in indexgen pipeline
- Built dynamic resource allocator to redistribute resources among components of indexgen pipeline according to Fuzzy Control Theory

Sōsh, San Francisco, CA
Software Engineering Intern, Summer 2013
- Created webpage keyword extraction tool using tf-idf, POS tagging, and other NLP
- Used MapReduce to generate reports of search metrics from MongoDB user activity logs
- Researched and built tool to programmatically score photo aesthetics via OpenCV and PIL
- Built photo relevance scoring system using Amazon's Mechanical Turk

Pension Analysis Consultants, Elkins Park, PA
Software Engineering Intern, May 2011- August 2012
- Built webapp for online requests, payment, and company workflow management
- Created html/pdf templating system to dynamically generate legal documents
- Redesigned company database schema and wrote task to migrate from legacy database

PERSONAL PROJECTS
github.com/jonpiffle

NCAABasketball: Researched predictive power of ML techniques in NCAA College Basketball (Regression, Neural Nets, Naïve Bayes, Decision Trees, SVM) See /MarchMadness for research paper

Dynamic Competition Tracker: RoR project that allows users to apply the ELO scoring system popularized by chess rankings to every competition

Megabus Tracker: Ruby script that sends email blast when $1 tickets go on sale

Textbook Exchange: Django webapp for buying/selling/trading of textbooks at CWRU

RankModule: Module to add rank to self-balancing trees

TECHNICAL SKILLS

Languages: Python, Ruby, C#, Java, Matlab, C, Javascript/jQuery, HTML, XML, CSS
Technologies: Rails, Django, Git, SQL, MongoDB, MapReduce, EC2, OpenCV, MTurk

ACTIVITIES AND LEADERSHIP

President of Hacker Society, Fall 2014
Member of ACM Exec, Fall 2014
TA for EECS 293: Software Craftsmanship, Fall 2014
Eagle Scout, December 2011
Cofounded BSA Venture Crew 116, December 2010

References Available On Request