

Michael Younkin

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EDUCATION

B.S. Computer Science at the **University of Maryland, College Park** expected **05/2016**

GPA 3.5

Tech Entrepreneurship Minor

Honors College

Entrepreneurship & Innovation Honors Program

Hinman CEOs Honors Program

EXPERIENCE

Amazon.com — *Software Development Engineer Internship*

June – August 2015

- Developed package to automatically reduce error rates for machine learning models
- Researched, designed, and implemented automated data analysis and filtering tool
- Performed initial research and development for major org 2016 initiative

Bloomberg L.P. — *R&D Intern in Systems Monitoring Tools*

June – August 2014

- Developed service metrics analysis and visualization toolkit (backend, middleware, and frontend)
- Designed and implemented efficient service-based high level API for OpenTSDB
- Improved efficiency by reaching out and integrating experimental technology from several teams

NASA JPL — *Software Development Internship in Data Services Group*

June – Dec. 2013

- Developed backup workflow and storage visualization system for Mars rover research data
- Designed and built frontend (Angular.js) and backend (Node.js, ElasticSearch, AWS)
- Contributed to initial software infrastructure for NASA's shift to AWS GovCloud

Applied Media Analysis, Inc. — *Programming Internship*

June 2012 – Feb. 2013

- Worked with CEO (Dr. David Doermann) to develop Arabic text processing technology
- Researched and implemented optimizations to existing machine translation process
- Refactored existing Perl script "spaghetti code" to reduce error rates and improve efficiency

PROJECTS

FlappyTerm – The hit game Flappy Bird, now in your terminal (using C, Python, and ncurses)

MadLibsMMO – Play Mad Libs collaboratively with your phone (using Node.js, Twilio, AWS EC2)

More projects available at <https://github.com/michael-younkin>

LEADERSHIP

TA for CMSC330: Organization of Programming Languages

Spring, Fall 2015

Core Organizer for Bitcamp (UMD's hackathon)

Jan. – May 2014

Officer in UMD Gamer Symphony Orchestra

May, 2013 – May, 2014

President of High School Programming Club

2009 – 2012

SKILLS

Highly proficient with: Python, JavaScript

Proficient with: Java, C, SQL, CSS, HTML, RESTful API Design, Machine Learning

Tools/Libraries: Git, vim, tmux, Linux, OpenTSDB, ElasticSearch, AWS, OpenGL, SQLite

ACHIEVEMENTS

UMD President's Scholarship

2012-2016

Armed Forces and Communications Electronics Association Scholarship

2012-2016

National Merit Scholarship Commended Student

2011