Michael Ip

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EDUCATION	B.S., **Computer Science**, anticipated **May 2016**
	University of Maryland, College Park, MD
	Overall GPA: **3.1** **University Honors Program**

COURSEWORK	Software Engineering	Human Computer Interaction	User Experience Design
	Data Structures	Computer and Network Security	Object Oriented Design

SKILLS & LANGUAGES

Languages:
- Scripting and automation: **Perl, Python**
- Web development: **JavaScript, HTML, CSS, JQuery, Ruby on Rails**
- iOS: **Swift**
- Databases: **MySQL, MongoDB, Pymongo**
- General Knowledge: **Java, C, C++**

Systems: Linux, Unix, Windows, Mac, AIX

EXPERIENCE

Software Engineering Intern, Lockheed Martin IS&GS   Summer 2015
Lockheed Martin, Rockville, MD
- Wrote Pymongo scripts to transfer data from MySQL to MongoDB
- Implemented a non-relational MongoDB database
- Interacted with structural, test and software engineers on the Air Traffic Control team

Software Engineering Intern, LM Aeronautics   Summer 2013-2014
Lockheed Martin Aeronautics, Marietta, GA
- Developed Perl scripts to automate manual testing and formatting
- Saved team 10 man hours per week with automated formatting and tests
- Performed white box testing of ADA code using Apex
- Performed black box testing of C-130J software in lab
- Interacted with Unix file systems

PROJECTS

Project Management Tool – http://seam.cs.umd.edu/purtilo/435/Projects/QuestManage/
- Designed front-end interface of a project management database web app
- Implemented tool using MVC design pattern and Laravel framework for PHP
- Collaborated with a **team** of 10 software engineering students

Engineering Hovercraft
- Developed Arduino code to control hovercraft
- Collaborated with a **team** of 10 engineers from various disciplines

Hackathon Projects

HACKATHONS

YHack (Yale) –
- Developed web app to view summaries of movies in real time using Javascript, HTML, CSS

HackDuke (Duke) –
- Developed educational website to produce poverty and homelessness statistics given a demographic using Javascript, HTML, CSS

HackGT (Georgia Tech) –
- Designed and developed a music player web app using Javascript, JQuery, Twilio API

Also: **Bitcamp, HackPSU**

ACTIVITIES	Leadership Team, Intervarsity Christian Fellowship	August 2013 – 2015
	E-Board Member, Taiwanese American Student Association	August 2014 – 2015
	Secretary, National Honors Society	August 2014 – 2015

HONORS	University of Maryland Honors Program	2012 – 2016
	Presidential Scholarship	2012 – 2016
	Bechtel Global Scholar Award	2012
	National Honors Society	2012 – 2012