

# Maxwell L. Burggraf

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## Education

Syracuse University, Syracuse, NY  
Bachelor of Science, Computer Science, expected May 2017  
Coursework:  
Functional Programming                      Data Structures  
Security, Access Control, and Trust        Certified Security by Design  
Discrete Mathematics                      Reporting & Presentation  
Operating Systems                          Programming Languages

## Skills

Languages:    Java, C/C++, Haskell, Python, JavaScript, Swift,  
                           $\text{\LaTeX}$ , MySQL, XML, HTML  
Software:     Android Studio, XCode, Eclipse, Visual Studio,  
                          Emacs, Vim, Git  
Environments: GNU/Linux, Windows, Mac OS X

## Experience

- Undergraduate Research Assistant**, Syracuse University                      Summer 2015
- Assisted graduate students in developing DroidSIFT, a new, semantics-aware approach to detecting malware in Android applications
  - Created a node.js web application called Gryphon and a REST API back-end to allow users to upload APK files and view malware analysis results
- Co-Founder**, CourseGoat.com, Syracuse, NY                      Aug 2014 - Present
- Co-developed schedule-creating site for Syracuse University
  - Wrote node.js JavaScript to interact with the Mongo database, client-side JavaScript UI/UX code, and web-scraping spiders in Python
  - Managed webserver
  - Awarded \$1000 in funding at the IDEA Startup Competition
- Teaching Assistant**, Syracuse University                      Aug 2014 - January 2015
- Designed and graded several quizzes and homework assignments for a class of 46 Computer Science first-year students
  - Held office hours to assist students in understanding course material
  - Covered various basic Computer Science concepts in Snap! and C
- IT Manager**, The Daily Orange, Syracuse, NY                      Aug 2014 - Present
- Manage and maintain office environment, including Windows and GNU/Linux servers, Windows and Mac workstations, office equipment, etc.
  - Maintain server backups and inventory records of IT equipment and software
  - Member of Board of Directors
  - Co-manage website design and development
- IT Consultant**, Tech Geekery, Syracuse, NY                      Feb 2015 - Present
- On-site IT support

## Awards & Certifications

- CompTIA A+ Certification
- IBM Master the Mainframe Competition - Participated in an IBM hosted competition. Completed Part 2 two years in a row.

## Projects

### Indian Diagnostics

Android December 2014, iOS February 2016

- Description: Android and iOS application that allows users to easily view details of an Indian Motorcycle error code. Published on the Google Play Store, awaiting Apple App Store publication.
- Languages: Java, XML, Swift
- Soruce Code:  
<https://github.com/mlburggr/Indian-Error-Codes> and  
<https://github.com/mlburggr/IndianErrorCodes-iOS>
- Download:  
<http://bit.ly/1WlTAY5>

### OverRustle for iOS

January 2016

- Description: iOS application for OverRustle.com, a stream-viewing site with a built-in chatroom. Awaiting publication on the Apple App Store.
- Language: Swift
- Soruce Code:  
<https://github.com/mlburggr/OverRustleiOS>

### Spotify Chromecast

January 2016

- Description: Android application that allows users to cast Spotify music streams to their Chromecast device. Inspired by the lack of Chromecast support on the main Spotify application.
- Languages: Java, XML
- Soruce Code:  
<https://github.com/mlburggr/spotify-chromecast>

### Gryphon

August 2015

- Description: Web application and API to test submitted Android application APK files for malware.
- Languages: JavaScript, HTML, CSS, Python

### CourseGoat.com

March 2015

- Description: Schedule-creating website for Syracuse University students. Also published an Android application on the Google Play Store.
- Languages: JavaScript, Python, PHP, HTML, CSS
- Website & Download:  
<http://www.coursegoat.com>  
<http://bit.ly/1PzmvEc>

### Checkers

December 2012

- Description: Two-player Checkers game with a working GUI. Created as a final project in an introductory Java course.
- Language: Java
- Soruce Code:  
[https://github.com/mlburggr/checkers\\_finalproject](https://github.com/mlburggr/checkers_finalproject)