

Maxwell L. Burggraf

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Education

Syracuse University, Syracuse, NY
Bachelor of Science, Computer Science, expected May 2017

Skills

Languages: Java, C/C++, Haskell, Python, JavaScript, Swift,
L^AT_EX, MySQL, XML, HTML
Software: Android Studio, XCode, Eclipse, Visual Studio,
Emacs, Vim, Git
Environments: GNU/Linux, Windows, Mac OS X

Experience

Software Development Engineer Intern, Amazon.com Summer 2016 (Current)

- Working with the AWS User Experience team
- Developing an application to maintain metadata of EC2 instances

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
- Awarded \$1000 in funding at the IDEA Startup Competition

Teaching Assistant, Syracuse University

Introduction to Systems Programming

Aug 2014 - January 2015

- Guided a class of 60 second-year Computer Science students during in-class activities
- Held office hours to guide students through assignments and assist students in understanding course materials
- Covered various Systems Programming concepts in Bash and C

Teaching Assistant, Syracuse University

Introduction to Engineering and Computer Science

January 2016 - May 2016

- 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 materials
- 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

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

Tweeter

August 2015 - May 2016

- Description: Game based on Conways Game of Life that focuses on the population and evolution of songbirds.
- Language: Java
- Source Code:
<https://github.com/mlburggr/Tweeter>

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>

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