

# Maxwell Fresonke

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## Experience

### University of Florida

Gainesville, FL

*Teaching Assistant for COP3503: Programming Fundamentals 2*

January 2016 – April 2017

- Led multiple autonomous lab sessions of 40+ students to teach fundamental C++ programming concepts and best-practices
- Taught students material outside of the required curriculum, including proper use of the Command Line and GitHub
- Drove attendance increase of 25% in lab sessions over the course of the year as students migrated from other sessions
- Documented examples, homework help, and learning materials using GitHub repositories

### The Ultimate Software Group, Inc.

Weston, FL

*TechSTAR Software Developer Intern*

May 2016 - August 2016

- Programmed production-level web services code including unit and integration tests in the Go programming language
- Utilized the JIRA tracking system and the TeamCity continuous integration system to track, execute, and test Kanban stories
- Developed additions to enhance the availability of the Postgres DB Store and improve the API for those consuming it
- Onboarded two new Software Developers to the team, familiarizing them with the team's systems and processes

### Yuhi Development, LLC.

Orlando, FL

*Software Developer Intern*

May 2014 – April 2016

- Independently constructed a new SMS campaign system to market to thousands of customers utilizing Go, MySQL and Twilio
- Managed Amazon Web Services resources including databases & EC2 instances to ensure cost/performance effectiveness
- Engineered RESTful APIs to add user-focused features and collect data from the company's iOS and Android applications
- Upgraded the company's Android Applications to add support for the new developed APIs and to fix longstanding bugs

## Education

### University of Florida

Graduated **April 2017**

*Bachelor of Science in Computer Engineering*

GPA: 3.12

Favorite Classes: Design Patterns, Microprocessors and Applications, Theatre Appreciation, Mobile Computing, Databases

## Activities

### Hackathons

Various Locations

- KnightHacks 2016, SwampHacks 2016 (see Awards), FSU Hacks 2017, SwampHacks 2017

### Software Engineering Club (SEC)

Gainesville, FL

*Executive Officer*

April 2016 – April 2017

- Coordinated with other Officers and Chairs to plan exciting and relevant events and tutorials for UF students
- Led numerous workshops including Command Line Workshops and a Java Swing GUI Tutorial
- Assisted with club-hosted workshops by helping students resolve errors, answer questions, and show them further details
- Modernized club listserv system, reducing maintenance overhead and simplifying club communications to members

## Awards

### Excellence in Online Communication

August 2016

- Recognized by group members for communication skills and leadership on a term project that was done entirely over the Internet

### SwampHacks 2016: 2<sup>nd</sup> Place Overall; State Farm's Favorite Hack

January 2016

- Created "Honey I'm Home" — a system developed to recognize people entering a home and take appropriate actions
- Assisted with writing backend Node.js code to handle incoming requests to process with an external Facial Recognition API
- Supported development of client Python code that utilized the OpenCV library to detect a person and make API requests

## Project Samples (see GitHub for full list of projects)

### EncryptAny Senior Project

- Empowered users to talk securely through encrypted messaging over any messaging service on Android
- Responsibilities included application design, coding the Accessibility Service, and filling in core Mediator code

### PhotoSender/Send2Phone Personal Project

- Completed command line app in Go to blast MMS Picture messages to partygoers as the event took place
- Released a spin-off module called ngrokker that allows users to programmatically create ngrok introspective tunnels

### DibzWiz Personal Project

- Engineered system using Node.js, jQuery, MongoDB, and the Twilio API to coordinate multi-length library room bookings

### Blackbelt Software Engineering Semester Project

- Collaborated with a team to create an online video course system for Melbourne Martial Arts, built with the MEAN.js stack

## Languages & Interests

**Languages:** Go, Java, Android, Node.js/JavaScript, C++, BASH Scripting, HTML, SQL, PHP, Python

**Tools:** git, zsh (super-powered BASH), ssh, tmux, docker, brew, apt, grep, MySQL, MongoDB

**Services & APIs:** Amazon Web Services (AWS), Twilio, GitHub, Bit.ly, Docker Hub