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 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
- Spearheaded a successful effort to recover, improve, and redeploy code from an uncooperative third-party development team
- 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
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: 2nd 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, client Python code that utilized the OpenCV library, and deployment to AWS

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 Android AccessibilityService, 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, 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