


# Tyler Kelly

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## Education

**Florida State University**—Tallahassee, FL ❖ Graduating December 2018

- ❖ **Master of Science**, Computer Science
- ❖ **3.90 GPA**

**Florida State University**—Tallahassee, FL

- ❖ **Bachelor of Science**, Computer Science (Minor: Mathematics), December 2016
- ❖ **3.69 GPA, President's List** and **Dean's List**

## Skills

- ❖ **Languages:** Python, C++1X, Java, C#, SQL, Swift
- ❖ **Technologies:** Docker, Django, OpenCV, Xamarin.iOS, Linux, Git, MySQL, Celery
- ❖ **Certifications:** Secret Security Clearance

## Work

**Lead Teaching Assistant** ❖ **Florida State University** *Aug. 2016 to present*

- ❖ Gave weekly lectures (25 - 150 students) with live coding detailing the design, implementation, testing, and debugging process of a C++ program
- ❖ Taught topics such as primitive data structures, algorithms for solving common tasks, pointer usage, and UNIX fundamentals

**Mobile Development Intern** ❖ **Marquis Software** *Aug. 2015 to July 2018*

- ❖ Lead iOS developer on two enterprise applications written with Xamarin.iOS (C#), incorporating a responsive user experience with use of MVP design patterns and ReactiveX (~30000 active users)

## Projects

- ❖ **RouteBot:** A published iOS application with ~4000 downloads built with Swift. Implements CoreLocation, MapKit, StoreKit, and CoreData frameworks to generate running routes
- ❖ **Distributed Password Cracking:** Reduced password cracking system's computation time by 35% by designing and implementing a distributed cracking scheme in a portable Docker environment using Django, Celery, and RabbitMQ
- ❖ **Yahoo! Messenger Clone:** Built messaging service using C++14 and STD Libraries. Allow multiple clients to establish connection to central server, and then form peer-to-peer connections with other established clients
- ❖ **STLTPredictor:** Dockerized application to predict stock market fluctuation. Uses datamining techniques to form a kNN model that combines data obtained from NLP methods, and OpenCV for predictions