Rob Koch

+1 (513) 593-5938 | kochrt@gmail.com | http://robko.ch/

PROJECTS github.com/kochrt

Ongoing — **JobsBox**
- Python script to apply for jobs on whoishiring.io

Ongoing — **PattersonBridge.com**
- Site for students to look for other students to work on interdisciplinary projects together
- Written using Angular with Google's Firebase as a backend

Ongoing — **Patterson Bridge**, native iOS app
- Swift 3 iPad/iPhone client for Patterson Bridge
- Published on the App Store

Ongoing — **Pîng**, native iOS app
- Location-based real-time chat app written in Swift using Google's Firebase as a backend
- Currently in beta on Apple's TestFlight Beta program

2016 — **Project Dragonfly**, native iOS app
- Swift 3 iOS app to encourage kids to explore their environment and ask scientific questions, done in conjunction with Miami University's Project Dragonfly
- Currently in beta on Apple's TestFlight Beta program

2016 — **GaggleInc**, hybrid iOS/Android app
- Created a hybrid mobile app using the Ionic framework and AngularJS in a three-person Agile development environment

WORK EXPERIENCE

Current — **Software Developer,** Cash Flow Solutions Oxford, OH

2016 — **Cloud Engineering Intern,** Cardinal Health Dublin, OH
- Redesigned and managed the internal engagement process for requesting Amazon Web Services (AWS) resources, streamlining the process by which resources are provisioned
- Created a reporting method to analyze high level usage and billing for AWS resources for an account
- Automated solutions for logging into VDI, sending customer emails based on data from an Excel spreadsheet, and entering queries into Neo4j graph database all using Python

2015 — **Teaching Assistant**, Miami University Computer Science Department Oxford, OH
- Proctored a computer lab for object-oriented programming course, focusing on good coding practices, readability, and object-oriented design
- Held a weekly help session for Intro to Programming students, emphasizing the fundamental aspects of computer science

2013 – 2015 — **English Instructor**, Shaoxing University & Wanxiang Polytechnic Zhejiang, China
- Taught comprehensive English course to college students while learning Chinese

2012 — **Research Fellow**, Procter & Gamble Cincinnati, OH
- As part of the biometrics group, conducted product research and consumer testing using various biometric tools and human factors, including facial expression coding, eye tracking using Tobii, implicit cognition studies, and Facial Action Coding System (FACS)
- Led work on developing new technical methods for evaluating product performance based on sensory feedback from consumers (Pantene)

2009 – 2012 — **Emergency Dispatcher**, Miami University Police Department Oxford, OH
- Dispatched officers and maintenance personnel to calls for service and assisted with call intake

- Completed data entry in preparation for transition to new computer aided dispatch (CAD) system

EDUCATION

2017	**BS Computer Science**, Miami University, 3.8 GPA	Oxford, OH

Courses: *Discrete Mathematics, Calculus I & II, Object Oriented Programming, Database Systems, Data Structures, Software Engineering, Computer Architecture, Comparative Programming Languages, Data Networking, Software Architecture and Design, Artificial Intelligence, Automata, Operating Systems*

2012	**BA Psychology**, Miami University, 3.7 GPA	Oxford, OH

SKILLS & PROFICIENCIES

Natural Language:	English (Native), Chinese (Intermediate)
Languages & frameworks:	Java, Swift, Python, HTML, CSS, JavaScript, SQL, Angular
IDEs & Technologies:	IntelliJ Suite, XCode, Eclipse, Android Studio, Git, Firebase