

# Rob Koch

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## PROJECTS

[github.com/kochrt](https://github.com/kochrt)

Ongoing	<b>JobsBox</b> <ul style="list-style-type: none"><li>Python webscraper for whoishiring.io based on keywords</li></ul>
Ongoing	<b>PattersonBridge.com</b> <ul style="list-style-type: none"><li>Site for students to look for other students to work on interdisciplinary projects together</li><li>Written using Angular with Google's Firebase as a backend</li></ul>
Ongoing	<b>Patterson Bridge</b> , native iOS app <ul style="list-style-type: none"><li>Swift 3 iPad/iPhone client for Patterson Bridge</li><li>Published on the App Store</li></ul>
Ongoing	<b>Pîng</b> , native iOS app <ul style="list-style-type: none"><li>Location-based real-time chat app written in Swift using Google's Firebase as a backend</li><li>Currently in beta on Apple's TestFlight Beta program</li></ul>
2016	<b>Project Dragonfly</b> , native iOS app <ul style="list-style-type: none"><li>Swift 3 iOS app to encourage kids to explore their environment and ask scientific questions, done in conjunction with Miami University's Project Dragonfly</li><li>Currently in beta on Apple's TestFlight Beta program</li></ul>
2016	<b>GaggleInc</b> , hybrid iOS/Android app <ul style="list-style-type: none"><li>Created a hybrid mobile app using the Ionic framework and AngularJS in a three-person Agile development environment</li></ul>

## WORK EXPERIENCE

Current	<b>Software Developer</b> , Cash Flow Solutions	Oxford, OH
2016	<b>Cloud Engineering Intern</b> , Cardinal Health <ul style="list-style-type: none"><li>Redesigned and managed the internal engagement process for requesting Amazon Web Services (AWS) resources, streamlining the process by which resources are provisioned</li><li>Created a reporting method to analyze high level usage and billing for AWS resources for an account</li><li>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</li></ul>	Dublin, OH
2015	<b>Teaching Assistant</b> , Miami University Computer Science Department <ul style="list-style-type: none"><li>Proctored a computer lab for object-oriented programming course, focusing on good coding practices, readability, and object-oriented design</li><li>Held a weekly help session for Intro to Programming students, emphasizing the fundamental aspects of computer science</li></ul>	Oxford, OH
2013 – 2015	<b>English Instructor</b> , Shaoxing University & Wanxiang Polytechnic <ul style="list-style-type: none"><li>Taught comprehensive English course to college students while learning Chinese</li></ul>	Zhejiang, China
2012	<b>Research Fellow</b> , Procter & Gamble <ul style="list-style-type: none"><li>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)</li><li>Led work on developing new technical methods for evaluating product performance based on sensory feedback from consumers (Pantene)</li></ul>	Cincinnati, OH
2009 – 2012	<b>Emergency Dispatcher</b> , Miami University Police Department <ul style="list-style-type: none"><li>Dispatched officers and maintenance personnel to calls for service and assisted with call intake</li></ul>	Oxford, OH

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

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## EDUCATION

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2017	<b>BS Computer Science</b> , Miami University, 3.8 GPA Courses: <i>Discrete Mathematics, Calculus I &amp; 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</i>	Oxford, OH
2012	<b>BA Psychology</b> , Miami University, 3.7 GPA	Oxford, OH

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## SKILLS & PROFICIENCIES

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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