

# Rob Koch

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## PROJECTS

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

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## WORK EXPERIENCE

- 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
  - 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
- 2013 – 2015      **English Instructor**, Shaoxing University & Wanxiang Polytechnic Zhejiang, China
- 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
- 2011          **Clerk**, Westover Air Force Base Chicopee, MA

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## 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

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## SKILLS

Natural Language:            English (native), Chinese (Intermediate)

Languages & frameworks:    Java, Swift, Python, HTML, CSS, JavaScript, SQL, Angular

IDEs & Technologies:        IntelliJ Suite, XCode, Eclipse, Android Studio, Dr. Java, Git, Firebase