

EMILY RICHMOND

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EDUCATION

MIAMI UNIVERSITY OXFORD, OH

Major: B.S. Software Engineering
Minor: Bioinformatics
GPA: 3.04
Expected Graduation: May 2018

SKILLS

Programming Languages:

Java, C++, HTML, CSS, SQL, Perl,
Python, Apex, R, JavaScript

Experience With: Salesforce, Git,
Ionic Framework, MATLAB, C#,
jQuery, Tableau, PC, Mac, Unix,
JUnit, Android Studio, Continuous
Integration Servers

CERTIFICATIONS

IC Agile Professional
Apr. 2017

PUBLICATIONS

Zhu, H., **Richmond, E.** & Liang, C.
"CRISPR-RT: A web application for
designing CRISPR-C2c2 crRNA with
improved target specificity."

**Bioinformatics (Accepted
September 2017, In Press)**

COURSEWORK

Software Quality Assurance
Software Requirements
UI/UX
Agile Methodologies
Data Structures
Technology Ethics
Computer Architecture
Database Systems
Statistical Modeling
Object-Oriented Programming

STUDY ABROAD

Tropical Marine Ecology
San Salvador, Bahamas
May 2016

WORK EXPERIENCE

Miami University Department of Computer Science | Oxford, OH

Teaching Assistant – Introduction to Software Engineering | Aug. 2017 – Present
- Conduct weekly stand ups with project teams, grade exams, and hold weekly office hours

Eli Lilly and Company | Indianapolis, IN

Intern | May 2017 – Aug. 2017

- Evaluated and determined requirements for electronic laboratory notebook system for scientists
- Optimized the system workflow to better match the scientists' needs and satisfy legal and business requirements
- Used Salesforce to develop a prototype for a new system and explored integration possibilities

Miami University Biology Department | Oxford, OH

Research Assistant | Oct. 2016 – May 2017

- Assisted in web development for RNA targeting in CRISPR-C2c2 and CRISPR-Cpf1 systems
- Presented project at the 2017 Miami University Cell, Molecular and Structural Biology Symposium

Cleveland Clinic Hospital Radiology Informatics | Beechwood, OH

Intern | Dec. 2016 – Jan. 2017

- Added features to web applications including revising menus and tables in HTML and JavaScript
- Managed database tables using SQL and built entity framework for reporting applications using C#

Miami University Bookstore | Oxford, OH

Student Manager, Technology Assistant | Mar. 2016 – Feb. 2017

- Managed and delegated tasks to 80+ student staff members
- Focused on the Technology Department by overseeing sales, computer repairs and troubleshooting

iD Tech Camps | Cleveland, OH

Instructor | June 2016 – Aug. 2016

- Managed over 50 students, collaborated with team members, and taught students aged 10-12
- Class topics included Python, JavaScript, Mobile Game Design, and Minecraft Game Design

LEADERSHIP EXPERIENCE

Association for Computing Machinery – Women, ACM-W | Oxford, OH

Co-founder, Secretary | Mar. 2017 – Present

- Advocate, celebrate, and support women in computing across different technical majors at Miami

Kode2Learn | Oxford, OH

Historian | Aug. 2015 – Present

- Lead weekly coding clubs, teach programming, and promote problem solving and teamwork
- Document, plan, and photograph organization events and weekly clubs

Girls Who Code | Oxford, OH

Member | Apr. 2016 – Present

- Lead coding clubs for girls in grades 5-12th grade, aide with coding and encourage STEM fields

Tau Delta Chapter of Theta Tau, Professional Engineering Fraternity | Oxford, OH

Social Media Chair, Attendance Panelist | Oct. 2015 – Present

- Maintain and promote the fraternity across various social media platforms
- Collaborate with 80+ engineers on brotherhood, professional development, and service events
- Contribute to the organization of a 3 day Great Lakes Region Conference for over 150 members