

# Nicholas A. Roberson

SOFTWARE DEVELOPER · RESEARCH INTERN

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## Education

**Grinnell College**, Grinnell, IA

**August 2014 - May 2018**

*B.A. in Computer Science*

GPA: 3.52/4.00, Major GPA: 3.70/4.00

Selected Coursework: Algorithms and Object Oriented Design, Data Visualization, Computer Networks, Functional Problem Solving, Imperative Problem Solving and Data Structures, Computer Architecture, Software Development Principles, Team Software Development for Community Organizations, Combinatorics, Linear Algebra, Calculus I/II, Electronics,

**Aquincum Institute of Technology**, Budapest, Hu

**August 2016-December 2016**

Study abroad program in software engineering and computer science.

Selected Coursework: Theory of Computing, Graph Theory, Combinatorial Optimization, Mobile Software Development.

## Work Experience

**Grinnell College Computer Science Department**, Grinnell, IA

**May 2017 - Present**

Undergraduate Researcher - Robust Design Patters for Molecular Computing Systems

- Worked with students and professors at Grinnell College and Iowa State University to develop and prove the correctness of robust design patters in molecular programming using chemical reaction networks.
- Developed a Molecular Programming IDE using the NetBeans IDE, JavaFX, and XML.

**Grinnell College Application Development Club**, Grinnell, IA

**August 2016 - Present**

Android Team Member

- Developed Android applications to be used by Grinnell College students in their every day lives.
- Wrote front and back end code for the Grinnell DB (student directory) and KDIC (campus radio station) applications.

**SRI International - S.T.A.R. Lab**, Menlo Park, CA

**May 2016 - August 2016**

Web Development Intern

- In conjunction with STAR Lab team members, developed a web based application to gather data from native speakers of endangered languages for the purpose of cultural preservation.

## Programming Skills

**General:** Mobile software development, front end development, web development, UI/UX design.

**Programming Experience:** Java, C, Python, Javascript, Ruby, Angular JS, Scheme SQL, XML, HTML, CSS.

**Familiar Software/IDE's:** Eclipse, IntelliJ, NetBeans, PyCharm, Emacs, Android Studio, Atom, Sublime Text, Gluon Scene Builder, Microsoft Visual Studio Code.

## Campus Involvement

**Varsity Swim and Club Water Polo**

**August 2014 - Present**

- Dual captain of the swim and water polo teams for the 2017/2018 season.
- 3<sup>rd</sup> and 5<sup>th</sup> place finish at DIII club water polo nationals 2015/2016.
- 8 time Midwest conference championship medal winner.

**Volunteering**

**August 2015 - Present**

- Coordinated and/or been involved in a variety of volunteer efforts within the Grinnell community ranging from natural waterway cleanup to walking dogs at the animal shelter to preparing meals at the local food pantry.