Nicholas A. **Roberson**

SOFTWARE DEVELOPER · RESEARCH INTERN
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Education

Grinnell College, Grinnell, IA   **August 2014 - (Expected) May 2018**
B.A. in Computer Science
GPA: 3.52/4.00, Major GPA: 3.70/4.00
Selected Coursework: Algorithms, Data Visualization, Algorithms and Object Oriented Design, Computer Networks, Functional Problem Solving, Imperative Problem Solving and Data Structures, Combinatorics, Linear Algebra, Calculus I/II, Physics I/II, Electronics, Modern Physics.

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, 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, Grinnell, IA   **August 2016 - Present**
Grinnell AppDev

- Senior Android front and back-end developer working on projects such as: Grinnell DB (student directory), KDIC (campus radio station), and many more.
- All applications are available on the Google Play store.

SRI International - STAR Lab, Menlo Park, CA   **May 2016 - August 2016**
Software 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.
- Wrote both front and back-end code, using Angular JS, Python Flask, SQL, HTML, and CSS.

Relevant Skills

Programming Experience: Java, C, Python, Android, Java FX, Javascript, Angular JS, SQL, XML, HTML, CSS.
Familiar Software/IDE's: Eclipse, IntelliJ, NetBeans, PyCharm, Emacs, Android Studio, Atom, Sublime Text.

Campus Involvement

Varsity Swim and Club Water Polo Teams Captain   August 2014 - Present

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

Divest Grinnell Co-Founder   August 2015 - Present

- A club that strives to educate students on the importance of divestment from fossil and actively seeks divestment by the college from fossil-fuel companies and other organizations that pose a serious threat to the environment.

Student Alumni Council   August 2016 - Present

- In charge of coordinating and planning alumni related events at Grinnell College.

Community Service

Grinnell College Varsity Swim Team, Grinnell, IA   August 2014 - Present

- Over past 3 years, participated in monthly community service projects involving volunteering at the Grinnell community soup kitchen, cleaning up local rivers and streams, and reading books to elementary school students.

Friends of Falls Church Homeless Shelter, Falls Church, VA   January 2014 - August 2015

- 120+ hours spent volunteering and taking on various roles at the shelter.
- Organized a bedding and clothing drive within the local community that yielded enough supplies for two years of operation.

Northern Virginia Family Services, Falls Church, VA   September 2012 - June 2014

- 150+ hours spent managing incoming donations and planning fund-raisers.