

# Tristan Knoth

519 Prospect st., San Carlos, CA 94070  
650 200 7867  
tjknoth@gmail.com  
github.com/tjknoth

## Education

- 2013-2017 **B.A., Computer Science and Mathematics**, *Grinnell College*, Grinnell, IA.  
(expected) - Cumulative GPA: 3.70 / 4.0  
- Computer Science GPA: 3.90 / 4.0  
- Mathematics GPA: 3.57 / 4.0
- 2009-2013 **Sequoia High School**, *Redwood City, CA*.  
- International Baccalaureate Diploma recipient, class valedictorian  
- Recognized by the School District for achieving a perfect score on the ACT

## Computer Science Experience

- May - Aug. **Software Engineering Intern**, *Fluxx Labs*, San Francisco, CA.  
2016 - Designed and implemented Android application utilizing Fluxx's JavaScript API to provide a native Android client for the core functionality of Fluxx's Grantmaker platform.  
- Worked alongside UI/UX and QA personnel within Agile framework to develop app from scratch according to Material Design standards.  
- Improved wiki-based API documentation to augment developer training.
- May - Dec. **Student Researcher**, *Grinnell College*, Grinnell, IA.  
2015 - Developed parallel software using CUDA C and Open MPI to select multiple order statistics from distributed data sets using NVIDIA GPUs.  
- Non-optimized software package can select one-tenth percentiles from  $2^{27}$  random data points in approximately 70ms.

## Work Experience

- 2016 - **Math Grader**, *Grinnell College*, Grinnell, IA.  
Present - Evaluate and provide feedback on assignments for 300-level probability and statistics courses.
- 2014 - **Technology Consultant**, *Grinnell College*, Grinnell, IA.  
Present - Assist 2,500+ students, faculty, and staff with using the school's technology resources.  
- Troubleshoot and resolve issues with Windows, Apple, and Linux computers.

## Specialized Skills

**Computer Languages:** C++, C, Java, CUDA, MATLAB, Haskell, Scheme, R, Ruby, Bash  
**Software/APIs:** Android Studio, Coq, Mathematica, Stata, MPI, Android SDK, Git  
**Other:** Linux,  $\text{\LaTeX}$ , Arduino, Linear Programming, Machining, Spanish

## Campus Involvement

- o Judicial Council
  - Hear cases related to campus misconduct to uphold the college's community standards.
- o Varsity Swim Team
  - Academic All-Conference 2014, 2015, 2016
- o Club Water Polo Team Captain
  - Organized and helped coach team of 20 to four consecutive national championship appearances.
  - Manage \$80,000 club sports budget.
  - First team All-American 2016