

Seeking an Internship Opportunity for Summer 2016

Education

- 2014–2018 **Carleton College - B.A. in Physics - B.A. in Computer Science**, Northfield, MN.
- GPA: 3.82
 - Coursework: Analytical Mechanics, Audio Programming, Computational Mechanics, Data Structures, Distributed and Parallel Computing, Electricity and Magnetism, Electronics, Math Structures, ODE

IT skills

- Web Dev Node, Bootstrap, JQuery, MySQL, HTML, CSS, JavaScript, Jade, MongoDB
- Languages Java, C++, C, Python
- Applications Matlab/Mathematica, Solidworks, R, Kaleidagraph, Latex, Unity, Multisim
- OS Mac/Windows/Unix
- Hardware Arduino, FPGA, General Electronics, Oculus Rift

Experience

- Sep 2015–Feb 2016 **SpaceX Hyperloop Pod Competition**, *St. Olaf College and Carleton College*, Northfield, MN.
- Researched Linear Induction Motors and designed the Low Voltage electrical system which brakes the pod and lays down the wheels in emergency
 - Selected to attend the Design Weekend at Texas A&M University in February
- Nov 2015–Jan 2016 **Web Developer Intern**, *91 JinRong*, Beijing, China.
- Worked full-time in a paid position at a startup.
 - Developed an interactive web application showing real-time stock market statistics with adjustable candlestick charts, MA, EMA, DIF, DEA, MACD, Bollinger Bands and ATR
- Jan–Jun 2015 **Independent Studies: 3D Printer Assessment**, *Carleton College*, Northfield, MN.
- Researched the effect of temperatures on printing performance with a staff member at the physics department
 - Conducted experiments to find out the optimal temperature for different printing requirements
- Apr–Jun 2015 **Independent Studies: Gravity Calculation**, *Carleton College*, Northfield, MN.
- Researched the gravity field caused by a 3D object with a faculty member at the physics department
 - Analytically calculated the gravity field and plotted the shape of the field with Mathematica

Projects

- Nov 2015–Now **www.goldenduo.com**, *Carleton College*, Northfield, MN.
- Launched this personal project that serves as a multifunctional web application tailored for my needs
 - Plan: resume(Finish), notebook(Almost), scheduler, accounts manager, data-crawler, real-world linker
- Jan 2016 **Parallelized Population Query**, *Carleton College*, Northfield, MN.
- Set up data models based on the most recent census data and analyzed them according to user requests
 - Reduced the time complexity $O(n)$ using a dynamic algorithm
- Oct–Nov 2015 **Light-Sensitive Robotic Arm with Internet of Things**, *Carleton College*, Northfield, MN.
- Built a prototypical robotic arm with an angular control precision of 5 degrees using Arduino
 - Designed the robotic arm for two modes: searching for light or manually controlled on a webpage
- Oct 2015 **3D Immersive Audio in Virtual Reality**, *University of Minnesota Twin Cities*, MN.
- Developed a 3D audio immersion project that helps blind people locate silent objects by listening
 - Designed project in Unity and tested it in Virtual Reality generated by Oculus Rift