

# Alex Hontz

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## SUMMARY

Software developer skilled in various languages with Eagle Scout ethics and 8 years of programming experience (3 years at a leading research lab that serves various governmental agencies, reaching Top Secret clearance)

## WORK EXPERIENCE

### Johns Hopkins University Applied Physics Lab, Laurel, MD

#### Software Developer – Intern

9/3/19-12/14/19

- Engineered software for various Force Projection Sector projects using C++, utilizing camera transforms and graphics for data simulation, and integrated government technologies with proprietary software for data visualization
- Communicated solutions to 30+ colleagues with an outbrief presentation followed by open dialogue feedback

#### Software Developer - Intern

June-Aug. 2018

- Deployed random forests used for image segmentation and wrote Convolutional Neural Networks to compete with them, collaborated with team members on large projects using Git and ClearCase
- Explained project results to a group of 25 co-workers

#### Software Developer - Intern

May-Aug. 2017

- Collaborated on Reconnaissance Blind Multi-Chess project to research neural networks' efficiency in limited information settings for potential military application

## SKILLS

- Strongest Programming Languages: Java, C++, JavaScript, NodeJS
- Other Languages: C, Python, HTML/CSS, C#, React, MATLAB
- Spoken Languages: English, Spanish, Japanese, Mandarin
- Other Skills: Git, Latex, ML, MongoDB, JSON, TDD, Linux, Statistics, Data Structures, Algorithms

## EDUCATION/PROFESSIONAL CERTIFICATIONS

- **Rensselaer Polytechnic Institute, Troy, NY**  
BS Dual Major in Computer Science and Math with a Minor in Chinese     **GPA: 3.98**
  - Graduating in May 2021 - 1 year early
  - Member of RPI's Archimedian Program for top scholars
  - Dean's List and Dean's Honors List every semester
- **Top Secret government security clearance**

## COMPETITIONS

- Won RPI Data Structures competition (#1 out of 200+, recognized for beating professor and TAs)
- Competed in Rubik's Cube World Championships twice, and Nationals twice
- Won Baltimore County Public School Physics Olympics competition
- Tied for #1 at Towson High School in F=MA physics competition
- Undefeated Team Captain at Maryland Science Bowl Round 1
- Won 3<sup>rd</sup> place in RPI Game Jam by developing a MMO games from scratch in 24 hours
- Qualified for Round 2 of University of Maryland's High School Math Competition

## LEADERSHIP

- **Senior Patrol Leader and Junior Assistant Scoutmaster** for Boy Scout Troop 328, Dulaney District, MD
- **Leader/Instructor** for Towson High School's Programming Club

## HOBBIES

- **Creating online MMOs such as Torn.Space** (<https://www.torn.space>)
- Skiing, water skiing/wakeboarding, martial arts, and playing guitar and piano
- Memorizing the state of a Rubik's Cube, then solving it blindfolded
- Playing abstract strategy board games (Go, Hex, and Y)