

Alex Watkins

<http://alexwatkins.co> • <http://www.linkedin.com/in/alexwatkins2> • <https://github.com/jalexw1013>

Education

Georgia Institute of Technology

Candidate for Bachelor of Science in Computer Science 2019

Atlanta, Georgia
August 2015 - Present

- Threads: Intelligence and Systems and Architecture
- CS GPA: 4.0/4.0

Experience and Projects

RoboJackets (<https://www.robojackets.org/>)

Software Engineer

Georgia Institute of Technology
August 2015 – January 2016

Robotics team developing an autonomous robot racing car.

- Worked on stoplight watching and a finish line detection
- Goal to race car around standard racing track for 3 laps and also participate in a drag race

High Performance Computing Research

Software Researcher

Georgia Institute of Technology
August 2016 – Present

Works with developing high speed sorting algorithms using Intel Intrinsics.

- Used vector programming, parallel programming, and SIMD for merge sorting algorithms
- Reduced overhead due to non-parallel sorting and branch prediction by a factor of 5

Nexus Craft, LLC

Manager

Waxhaw, North Carolina
August 2014 – January 2016

Self-owned Software Company developing a variety of software applications.

- Clothes Log – Cross platform app for organizing clothes and intelligently deciding what to wear
- Vertical Maze – iOS game, involves a box moving through a scrolling maze
- Convert Colors – iOS app, uses Tri-dimensional geometry to convert between HSL, HEX, and RGB

Activities

VEX High School Robotics Competition

Lead Autonomous Programmer

Charlotte Christian School
August, 2014 – May, 2015

- Built and programmed a robot to grab, push, and place plastic cubes onto PVC pipes
- Programmed in ROBOTC, an extension of the C language
- Competed at local and National Tournaments winning several awards

Over 400 service hours served in college and high school via community service

- Served at homeless shelters, YMCA, and other community organizations
- Served for international aid organizations

Skills

Programming Experience: Java, C, HTML, CSS, Python, Objective-C, Swift, SQL, JavaScript, PHP, C++

Development Experience: Website (Frontend & Backend), iOS, Robotics, Assembly/Low Level, JavaFX

Other Computer Skills: Computer Building, Networking, Server Management

Music: Percussion and Piano

Operating Systems: Windows, Macintosh, Linux (Ubuntu)