

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 May, 2018

Atlanta, Georgia
August 2015 - Present

- Threads: Information Internetworks + Systems and Architecture
- GPA: 3.4/4.0

Experience and Projects

Amazon.com, Inc.

Software Development Engineer Intern

Seattle, Washington
May 2017 – July 2017

Worked on frontend team of Simple Storage Service (S3) within Amazon Web Services (AWS)

- Worked on the team that handles the lifecycle of frontend hosts
- Developed new approach to end user logging which recovered thousands of previously deleted user logs per hour
- Recovered delete requests saving on storage costs in the 10s of Petabytes per day

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 IOS mobile applications and Web 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

Other Projects and activities

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 using computer vision and OpenCV
- Goal to race car around standard racing track for 3 laps and also participate in a drag race

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: Cloud Computing, AWS, S3, Data Storage, Website (Frontend & Backend), iOS, Robotics, Assembly/Low Level, JavaFX,

Other Computer Skills: Computer Building, Networking, Server Management

Operating Systems: Windows, Macintosh, Linux