

Nicholas Ryan

331739 Georgia Tech Station, Atlanta, GA 30332 • Nryan6@gatech.edu • 423-834-3726 • nickkryan.github.io

EDUCATION

Georgia Institute of Technology, Atlanta, GA,

- Bachelor of Science in Computer Science
- Focus Areas: Intelligence and Theory
- Minor: Mathematics
- GPA: 3.56/4.00 Dean's List

Expected Graduation May 2017

SKILLS

Languages: Java · Python · SQL · Javascript · C

Software/Frameworks Git · LaTeX · Apache Storm · Dagger

Other: Linux · Algorithm Design and Analysis · Machine Learning · Database Design

PROJECTS

- Intelligent Graph Search - Python
Implement advanced graph search algorithms to instruct an artificial intelligent agent to solve various mazes
- Multi-Threaded OS Scheduler - C
Schedule OS resources to minimize wait across tasks via FIFO, Round Robin, and Priority Queue techniques
- Database Application - Java
Design and implementation of a library database system to manage all book and fee operations

WORK

Teaching Assistant

January 2016 - Present
Atlanta, GA

Georgia Tech College of Computing

- Assist with CS 1331, the focus of this course is Object-Oriented Programming with Java
 - Lead hour and a half recitation, with another TA, once a week to reinforce lecture topics
 - Write and grade homework assignments as well as grade exams

Software Development Intern

May 2016 - August 2016
Seattle, WA

Amazon.com, Inc.

- Android development for Amazon Kindle FreeTime
 - Implement a new customizable wallpaper feature from front-end to back-end
 - Extensive testing at unit, UI, and service-side level

Research Assistant

January 2015 - May 2016
Atlanta, GA

Georgia Tech Program Analysis Group - Trustable Programming Group

- Program Analysis Based on Automatic Theorem Proving and Automata under Dr. William Harris
 - Primary focus on program equivalence checking through logical interpolation and indistinguishable equivalence
 - Manage benchmark collection and testing

Software Development Intern

May 2015 - August 2015
Verona, WI

Epic Systems

- Design Web Application and Database for Medical Location Data
 - Streaming Geocoding solution for continuous data processing by utilizing Apache Storm to pull data from a SQL Database, process the data, and pass to our web application
 - SQL and JavaScript features focusing on user experience for medical and financial analysis given current clinic locations and surrounding area data

Tutor

August 2015 - December 2015
Atlanta, GA

Georgia Tech College of Computing

- One-on-One student instruction to explain concepts in Intro to Object Oriented Programming, Data Structures and Algorithms, and Computer Organization and Programming

LEADERSHIP/ACTIVITIES

- Georgia Tech Men's Ultimate Frisbee Club, August 2012 - Present
President/Captain: June 2015 - Present
Manage team and plan and execute practices. Dedicate 10-15 hours a week.