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

SKILLS

Languages: Java \cdot Python \cdot SQL \cdot Javascript \cdot 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 vio 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

Georgia Tech College of Computing

Atlanta, GA • 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

Amazon.com, Inc.

Epic Systems

May 2016 - August 2016

Expected Graduation May 2017

Seattle, WA

Atlanta, GA

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

January 2015 - May 2016 Research Assistant

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

- Design Web Application and Database for Medical Location Data
 - o 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
 - o SQL and JavaScript features focusing on user experience for medical and financial analysis given current clinic locations and surrounding area data

Tutor Georgia Tech College of Computing August 2015 - December 2015

Atlanta, GA

• 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.