Nicholas Ryan

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

Bachelor of Science in Computer Science

Focus Areas: Intelligence and Theory

Minor: Mathematics

GPA: 3.48/4.00 Deans List

Expected Graduation May 2017

SKILLS

Languages: Java · Python · SQL · Javascript · C

Software/Frameworks: Git · LaTeX · Apache Storm · Microsoft's iZ3

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

EXPERIENCE

Software Development Intern

Summer 2016

Atlanta, GA

Amazon.com, Inc.

Teaching Assistant Georgia Tech College of Computing

January 2016 - Present

January 2015 - Present

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 grading exams

Research Assistant

Georgia Tech Program Analysis Group - Trustable Programming Group

Atlanta, GA

- Program Analysis Based on Automatic Theorem Proving and Automata under Dr. William Harris
 - Primary focus on program equivalence checking through logical interpolation, via iZ3, 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

- Streaming Geocoding solution for continuous data processing
 - Utilized Apache Storm to pull data from a SQL Database, process the data continuously via Esri ArcGIS, 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

Epic Systems

August 2015 – December 2015

Georgia Tech College of Computing

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, 2012 – Present

President/Captain: June 2015 – Present

Manage team and plan and execute practices. Dedicate 10-15 hours a week.