

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 • 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 all 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

May 2015 – August 2015

Epic Systems

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 clinics and surrounding area data

Research Assistant

January 2015 - Present

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

Tutor

August 2015 - Present

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

Research Assistant

August 2014 – December 2014

Georgia Tech Research Network Operation Center

Atlanta, GA

- Beta Testing Android BarcodeFitness Application
 - Usability testing in various environments and documenting issues
 - Prepare app to be pushed to Play store through bug fixes and implementing new features

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.