Nicholas Ryan

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EDUCATION

Georgia Institute of Technology, Atlanta, GA,
- *Bachelor of Science in Computer Science*   *May 2017*
- *Focus Areas: Intelligence and Theory*
- *Minor: Mathematics*
- GPA: 3.60/4.00 *Highest Honors*

SKILLS

Languages: Java · SQL · Python
Software/Frameworks AWS Services (Kinesis, DynamoDB, S3, Lambda, CloudFormation) · Spring · Git · Apache Spark
Other: Database/Data Warehouse Design · Functional Programming · Linux · Machine Learning

WORK

Software Development Engineer II   July 2017 - Present
Amazon.com, Inc.   Seattle, WA
- Recommendations for Amazon FreeTime
  - Build models based on app usage to recommend new content for children using AB Testing to evaluate new models
  - Work closely with ML Scientists to construct new evaluation metrics to speed up our model testing process
- Manage real-time data pipeline to handle all business and performance metrics within the FreeTime infrastructure
  - Clients provide 'Contract Packages' which define validation and transformations to be applied on their incoming data which allows onboarding new clients with no code changes
  - Data pipeline is integrated with above recommendation systems allowing all incoming data across platforms to be included in recommendations if deemed appropriate

Teaching Assistant   January 2016 - May 2017
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   May 2016 - August 2016
Amazon.com, Inc.   Seattle, WA
- 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
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 and indistinguishable equivalence
  - Manage benchmark collection and testing

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 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

LEADERSHIP/ACTIVITIES

- Georgia Tech Men's Ultimate Frisbee Club, August 2012 - May 2017
  President/Captain: June 2015 - May 2017
  Manage team and plan and execute practices. Dedicate 10-15 hours a week.