David Thomson

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Education

Georgia Institute of Technology, Atlanta, GA — Expected Graduation: May 2018
- B.S. in Computer Science
- GPA: 3.86
- Concentration: Information Internetworks, Intelligence

Experience

Factory Automation Systems, Atlanta, GA — Summer 2016, Spring 2017
Software Development Intern
- Created Human-Machine Interface application to control a GE automated production line; worked with customer on site to test and install
- Developed WPF desktop application to organize and display data from 70+ employees' Google Calendars to help project managers plan effectively
- Developed Windows service to periodically read data from a Programmable Logic Controller and store the data in a SQL database
- Responsible for resolving technical problems with all interns' laptops

Georgia Tech College of Computing, Atlanta, GA — January - May 2016
Teaching Assistant
- Explained key concepts in data structures and algorithms to first and second year students
- Led weekly recitations to review course content
- Held office hours to help with homework implementations
- Proctored and graded tests and quizzes
- Wrote comprehensive unit tests to help grade homework assignments

Association for Unmanned Vehicle Systems International, Alexandria, VA — May 2015
Robotics Conference Intern
- Intern at AUVSI's *Unmanned Systems North America* technical conference and trade show
- Supported event logistics and attendee registration for 6,000+ participants and 500+ corporate exhibitors
- Assisted with product demonstrations of drones and robotic vehicles

Projects

Neural Net Implementation — November - December 2016
- Python implementation of neural net
- Uses multi-layer network with back propagation
- Recognizes handwritten digits

MARTA Database Application — August - December 2017
- Created MySQL database to simulate passenger traffic information for the Metropolitan Atlanta Rapid Transit Authority (MARTA)
- Designed all tables and queries to implement specified functionality
- Developed desktop application in Python with TkInter to allow passengers and administrators to easily use the database

Skills

Languages: C#, Java, LaTeX, Python, VBA, Visual Basic
Development Tools: Git, Intellij, JUnit, Microsoft SQL Server, Visual Studio

Activities

Georgia Tech Chamber Choir, Atlanta, GA — May 2015 - May 2016
Vocal Performer/Treasurer
- Managed approximately $5,000 in funds and set a budget for the fiscal year
- Accepted donations, collected membership dues, and maintained financial records for the choir

Pi Epsilon Phi, Atlanta, GA — January 2016 - January 2017
Treasurer
- Choral service fraternity
- Regularly performed service projects to help support the GT Choirs
- Role as Treasurer included managing approximately $2,000 in funds and collecting membership dues