

David Thomson

dthomson7@gatech.edu | (703) 851-8184 | <https://github.gatech.edu/dthomson7>

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 co-ops' 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