

# David Thomson

dthomson7@gatech.edu | (703) 851-8184

## Education

---

### Georgia Institute of Technology

August 2014 - Present

- B.S. in Computer Science
- Expected graduation: May 2018
- GPA: 3.84
- Concentration: Information Internetworks, Intelligence

## Experience

---

### Factory Automation Systems | Co-op

May 2016 - May 2017

- 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 | Teaching Assistant

January - May 2016

- 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

### AUVSI | Robotics Conference Intern

May 2015

- Association for Unmanned Vehicle Systems International (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

---

### Buzz Movie Selector

- Android application to help Georgia Tech students find movies to watch
- Uses Rotten Tomatoes REST API to allow users to search for movies and view ratings
- Users can rate movies and ask for recommendations based on rating and academic major

### Neural Net Implementation

- Python implementation of neural net
- Uses multi-layer network with back propagation
- Recognizes handwritten digits

## Skills

---

### Languages

- C#, Java,  $\LaTeX$ , Python, VBA, Visual Basic

### Development Tools

- Git, IntelliJ, JUnit, Microsoft SQL Server, Visual Studio

## Activities

---

### Georgia Tech Chamber Choir | Treasurer

May 2015 - May 2016

- 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 | Treasurer

January 2016 - January 2017

- 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