

# David Thomson

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## Education

**Georgia Institute of Technology**, Atlanta, GA

Expected Graduation: May 2018

- B.S. in Computer Science
- GPA: 3.84
- Concentration: Information Internetworks, Intelligence

## Experience

**Factory Automation Systems**, Atlanta, GA

May 2016 - May 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

**AUVSI**, Atlanta, GA

May 2015

*Robotics Conference Intern*

- 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

**Neural Net Implementation**

November - December 2016

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

**Buzz Movie Selector**

January - May 2016

- 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

## Skills

**Languages:** C#, Java,  $\text{\LaTeX}$ , 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

*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