David S. Thomson

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Education

Georgia Institute of Technology August 2014 - Present

- B.S. in Computer Science, expected graduation: May 2018
- GPA: 3.84
- Important Courses: Data Structure and Algorithms, Organization and Programming, Calculus III

Experience and Activites

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 GUI 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 | Undergraduate 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

Georgia Tech Chamber Choir | Treasurer May 2015 - Present

- Manage approximately $5,000 in funds and set a budget for each fiscal year
- Maintain extensive financial records for the choir

Pi Epsilon Phi | Master of Rituals November 2014 - Present

- Choral service fraternity
- Regularly perform service projects to help support the GT Choirs
- Role as Master of Rituals includes organizing events and ceremonies

Skills and Projects

Languages and Software

- C#, Git, Java, LaTeX, Microsoft Office, Python, Visual Basic, VBA

Linear Algebra Computer Project

- Collaborative course project

- Robust implementation in Java of several linear algebra algorithms, including LU and QR factorization, and solving systems using the Jacobi and Gauss-Seidel iterative methods

TeXNotes Project

- Desktop application allowing user to easily create skeleton LaTeX documents for note taking
- Writes and compiles a note taking template based on the subject, date, optional packages selected by the user, etc.