

# Timothy E. Johnston

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Analytical and enthusiastic junior developer looking to build upon 3 years' experience on multidisciplinary engineering teams. Passionate about logical, structured problem solving and committed to communication and learning-by-doing

## EDUCATION

**Tech Elevator** 05/2018 – Present  
Full-stack object oriented software development bootcamp using Java

**The Pennsylvania State University** 08/2010 – 05/2014  
Bachelor of Science in Meteorology – GPA: 3.56/4.00

## TECHNICAL SKILLS

- |          |                     |                         |                       |
|----------|---------------------|-------------------------|-----------------------|
| ◦ Java   | ◦ Linux             | ◦ PostgreSQL            | ◦ JUnit Unit Testing  |
| ◦ Python | ◦ Unix Command Line | ◦ JDBC                  | ◦ Integration Testing |
| ◦ MATLAB | ◦ Git               | ◦ SQL Queries           | ◦ Spring MVC          |
| ◦ IDL    | ◦ Eclipse           | ◦ Database Table Design | ◦ GNU Nano            |

## TECHNICAL EXPERIENCE

**Virtual Interview**  
◦ Interactive mock-interview command line application built with Java and OOP design principles  
◦ Uses file I/O to read and print sample questions, time user's response, and allow user to add/modify/delete questions

**CatDetector Sensor and Twitter Bot**  
◦ [twitter.com/TheThirstyCat](https://twitter.com/TheThirstyCat)  
◦ Detects when cat approaches water bowl, captures a picture, and tweets photo using Raspberry Pi, force-sensitive resistor, Python, and Tweepy  
◦ Wrote technical "How-to" documentation to document build process and instruct others how to recreate the project

**National Park Reservation System**  
◦ Queries PostgreSQL database to display and reserve available campsites based a user's search parameters  
◦ Program functionality and JDBC API connection to database verified with Junit unit and integration tests

**Vending Machine**  
◦ Object oriented design that responds to user input and reads/writes text files

## PROFESSIONAL EXPERIENCE

**vOrb, LLC., Pittsburgh, PA** 08/2017 – 03/2018  
**Product Manager and Assistant Scientist**

*Tech startup devoted to increasing efficiency and safety on construction sites with IoT sensors and instrumentation*  
◦ Provided around-the-clock support to customers to minimize downtime and maximize value received from product  
◦ Developed and implemented technical solutions to fully meet the unique needs of critical customer accounts  
◦ Conducted calibration and validation testing to ensure precise and reliable operation of measurement devices

**Insurance Institute for Business & Home Safety, Richburg, SC** 03/2015 – 08/2017  
**Staff Scientist**

*Multi-hazard research facility focused on disaster mitigation in the face of severe weather and climate events*  
◦ Coordinated data collection, documented progress, and met project timeline goals as co-lead of diverse research team  
◦ Analyzed experimental test data with MATLAB and wrote technical reports to inform industry partners of results  
◦ Inspected sampling instrumentation to identify problems, maintain accuracy, and validate existing measurements

**University of Michigan, Ann Arbor, MI** 07/2014 – 03/2015  
**Research Assistant**

*Research group responsible for development of numeric model of Mars' atmosphere and its validation with satellite data*  
◦ Collaborated on the development of scripts used to perform initial validations of a novel atmospheric model  
◦ Mentored a fellow student in the use of the IDL programming language for data analysis and visualization