

# Timothy E. Johnston

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

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## 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

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## TECHNICAL SKILLS

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

### ThirstyCat

- [twitter.com/TheThirstyCat](https://twitter.com/TheThirstyCat)
- Automated detector that senses when cat approaches water bowl, captures a picture, and tweets photo using Raspberry Pi, force-sensitive resistor, Python, and Tweepy
- Wrote technical “How-to” guide to document build process and instruct others how to recreate the project

### 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, times user's response, and allows user to add/modify/delete questions

### National Park Reservation System

- Queries PostgreSQL database to display and reserve available camps based user's search parameters
- Program functionality and JDBC database queries verified with Junit integration and unit tests

### Vending Machine

- Object oriented design that responds to user input and reads/writes text files to log transactions
  - Collaboratively designed and implemented with pair programming
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## PROFESSIONAL EXPERIENCE

### vOrb, LLC., Pittsburgh, PA

08/2017 – 03/2018

### Product Manager and Assistant Scientist

*Local 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 products
- Developed and implemented unique technical solutions to fully meet the needs of critical accounts
- Conducted calibration and validation testing to ensure 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