

Timothy E. Johnston

timothyjohnston.me

[linkedin.com/in/timothyejohnston](https://www.linkedin.com/in/timothyejohnston)

(724)-968-8245 | tedwardj11@gmail.com | Pittsburgh, Pennsylvania

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.

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 | ◦ Spring MVC | ◦ PostgreSQL | ◦ Eclipse |
| ◦ Python | ◦ Selenium | ◦ Spring JDBC | ◦ Unix Command Line |
| ◦ MATLAB | ◦ Junit | ◦ SQL Queries | ◦ HTML & CSS |
| ◦ IDL | ◦ Git | ◦ Database Design | ◦ JavaScript |
-

TECHNICAL EXPERIENCE

National Parks Weather Update Website

- Java Spring MVC web application using PostgreSQL database to show forecasts and save user input
- Webpages designed and styled with JSP, CSS, and Bootstrap
- Automated testing with Selenium used to test individual page functionality and navigation through website

ThirstyCat

- 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 on 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
-

PROFESSIONAL EXPERIENCE

vOrb, LLC., Pittsburgh, PA

08/2017 – 03/2018

Product Manager and Assistant Scientist

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