Timothy E. Johnston

timothyjohnston.me
linkedin.com/in/timothyejohnston
Mobile: (724)-968-8245 | tedwardj11@gmail.com | Pittsburgh, Pennsylvania

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
- Python
- MATLAB
- IDL
- Linux
- Unix Command Line
- Git
- Eclipse
- PostgreSQL
- JDBC
- SQL Queries
- Database Table Design
- JUnit Unit Testing
- Integration Testing
- Spring MVC
- 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
- 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 PostgresSQL 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
- Collaboratively designed and implemented with pair programming

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