

## Katie A. Shelton

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63 Mascoma Street, Lebanon NH 03766

### OBJECTIVE

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*Enthusiastic, flexible candidate with 4 years of work experience in recording, interpreting and analyzing data in a fast-paced environment, a natural attention to detail, and strong organizational and interpersonal skills, seeking data analytic opportunities.*

### WORK EXPERIENCE

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#### **Research Chemist – FreshAir Sensor**, Lebanon NH, January 2017 – Present

- Work independently to develop cotinine (main metabolite of nicotine) specific sensor product, H2S sensor product and collaboratively with team to improve already developed sensor products
- Day to day: Make sensors using several techniques, printing, spin coating, drop casting; setup testing chambers and methods to test sensors; use instruments, mainly UV-Vis spectrometer for sample analysis
- Interpret data using statistical techniques and provide reports with data visualizations to present data information on product to managing team
- Develop and improve data collection and procedures using skills in python
- Clear communication skills aimed at understanding demanding project requirements and providing corresponding services
- Trained interns in chemistry department on procedures and techniques

#### **Website Design Experience** Summer/Fall 2016

- Designed and implemented a website for the [Holy Rosary School childcare program](http://p2518966.wixsite.com/childcare) in Kewaunee, WI (p2518966.wixsite.com/childcare)
- Designed and implemented a website for the [Kewaunee Fitness Center](http://kewauneefitness.org) in Kewaunee, WI (kewauneefitness.org)

#### **Research Assistant – Analytical Chemistry**, Bucknell University, Spring 2016

- Worked collaboratively with Department Chair to create a teaching lab for a lower level chemistry course analyzing ingredients in different types of sodas using HPLC
- Responsible for creating, analyzing and distributing organized data to students and faculty

#### **Research Assistant – Environmental Chemistry**, Bucknell University, May-July 2014

- Researched interactions of nanoparticles with various forms of clay; Presented a poster at end of internship
- Experience in various chemistry labs and using state of the art instruments such as XRD and mass spectrometer.

#### **Sales Associate, Target** June 2015 to December 2016, Green Bay, WI and Glenview, IL

- Managed inventory and attended to the needs of customers to ensure satisfaction
- Trainer to junior employees

### EDUCATION

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#### **Bucknell University, Lewisburg, PA, Bachelor of Science in Chemistry**, May 2016

- Relevant classes: Computer Science (Python), Analytical and Physical Chemistry, Calculus 1, 2 and 3

#### **Bucknell University, Lewisburg, PA, Bachelor of Arts in German**, May 2016

- Study Program Abroad: Berlin, Germany: All classes taught in German

#### **Relevant Online Coursework**

- Completed Google IT Support Professional Certificate through Coursera November 2020
- Completed Python for Data Science and AI by IBM through Coursera May 2020s

### ACTIVITIES

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#### **Upper Valley Rugby Club**, Spring 2018 – Present

**Chicago Marathon**, (October 2019) Raised over \$3000 for National MS Society

**Bucknell Symphony Orchestra**, (Fall 2012 – Spring 2016) Semi-professional violin player: 1<sup>st</sup> Violin

**Chi Omega Sorority, Bucknell University**, Member since October 2013

### COMPETENCIES

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**Technical skills:** Python and SQL programming languages, Microsoft Office (Access, Excel, Word, PowerPoint), Arduino, Soldering

**Laboratory skills:** UV-Vis, centrifuge, HPLC, XRD

**Other competencies:** Excellent time management, organizational skills, attention to detail and strong writing skills