

David McDowell

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Education

Southern Illinois University Carbondale

Fall 2017 – Spring 2020

- Bachelor of Science in Computer Science – expected graduation Spring 2020
- Southern Illinois University Cumulative GPA: 3.91
- Undergraduate Computer Science GPA: 3.57

University of Illinois at Urbana-Champaign

Graduated – Spring 2014

- Bachelor of Science in Chemistry – Specialized Curriculum
- Conducted undergraduate research on the dielectric properties of a new material while a member of the Kriven Research Group in the Material Science and Engineering Department
- Graduated with distinction

Skills

- Proficient in Java programming language, C programming, Linux programming, Microsoft Excel, PowerPoint and Word
- Experience in the use of Matlab, HTML5 programming, Python programming, and Mathematica technologies

Work Experience

Southern Illinois University Department of Computer Science –Lead Teaching Assistant

January 2019 – May 2019, Carbondale, Illinois

- Taught thirty students the fundamental computer science and data structures concepts using Java and Eclipse IDE
- Designed and implemented weekly lab assignments concerning the designed data structure of the week
- Offered additional academic and emotional support to students during weekly office hours

Ieso, LLC – Chemist

September 2017 – January 2019, Carbondale, Illinois

- Designed and manufactured high quality consumable products for dozens of clients following company protocols
- Conducted experiments, researched, and developed standard operating procedures for additional product lines using the scientific method
- Maintained highly specialized and crucial laboratory equipment used for analysis and production

Tradebe Environmental Services, LLC – Lead Traveling Chemist

December 2015 – April 2017, East Chicago, Indiana

- Generated federal documents for the transportation and disposal of hazardous materials for hundreds of clients throughout the Midwest
- Segregated, categorized, and packaged hazardous waste for transportation with efficiency to meet customer requirements
- Resolved conflicts and disputes while meeting generators in new and different work conditions daily

Open Road Asphalt Company, LLC – Quality Control Technician

April 2015 – November 2015, Urbana, Illinois

- Determined theoretical maximum specific gravity, bulk specific gravity, oil content, and graduation of asphalt materials
- Participated in batching new asphalt mixture designs to meet the expectations of both the client and company
- Tracked various material properties and density correlations using large data sets

Activities

- Member of SIU's F1/10th Autonomous Racing team - *Present*
- Wild Card Cycling Team - *2012 - Present*
- Volunteer fireman for Gifford Fire Department - *2009 - 2013*
- Emergency Medical Technician (EMT-B) - *2011 - 2013*
- Alpha Chi Rho University of Illinois Chapter Internal Social Chair - *2010*