

# Joseph Black

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## Education

- B.S. Chemical Engineering**, *Brigham Young University* Apr 2021  
• Emphasis in Energy/Environment, Minor in Economics Provo, UT  
• GPA: 3.60/4.0 BYU Academic Scholarship – Six-time recipient, half tuition
- Coding Bootcamp**, *University of Wisconsin (UW)* May 2023  
• GPA: 99.4% Madison, WI  
• GitHub Portfolio: [J03B](#)

## Chemical and Engineering Experience

- Technical Support Engineer**, Epic Jul 2021 – Present  
• Designed reporting model filters, metrics, and tutorials for Septic patient data Verona, WI  
• Proactively supported dozens of hospitals nationwide, increasing organizational achievements  
• Collaborated with IT, operations, and executives, increasing clinician and software efficiency  
• Developed methods to locate and clean up server objects and software build
- Intern, Process Engineer**, *Valero Energy* Jun 2020 – Aug 2020  
• Designed a permanent SRU inlet distribution solution to meet industry standards Benicia, CA  
• Optimized nC4 railcar offloading process, increasing annual profits by nearly four million dollars  
• Modeled the sootblower system on PS, FGS, and SCR to mitigate corrosion and maintenance  
• Engineered the recycling of spent caustic at WWT, decreasing hazardous material generated
- Research Assistant**, *DIPPR 801 Project* Jan 2019 – Jul 2021  
• Reverse-engineered autoignition prediction program from Assembly and Fortran Provo, UT  
• Oversaw the research and addition of several chemicals to the database  
• Experimented on 100's of chemicals to determine heat capacities and autoignition temperatures  
• Designed and installed a new process to increase safety in the lab
- Intern, Content Specialist**, *SpotterRF, LLC* Mar 2018 – Jan 2019  
• Engineered radar quality to a margin of 5% error while meeting deadlines Orem, UT  
• Accelerated the decision-making process of end users by 40% by creating a standardized form  
• Authored the company's most successful Press Release in viewership and interactions by 200%  
• Increased company revenue by 50% through sale's team efficiency improvements

## Leadership Experience

- Vice President of Internal Affairs**, *AIChE BYU Local Chapter* Feb 2018 – Jan 2020  
• Diligently catalogued club history to win the Outstanding Chapter Award twice Provo, UT  
• Analyzed historical data to increase participation by 30% and student funding by 40%  
• Aided in the success of club members, various events and transitory actions of COVID-19
- Student Supervisor**, *BYU Creamery and Food-to-Go* Aug 2017 – Mar 2018  
• Improved team efficiency by 66% by increasing organizational efforts Provo, UT  
• Directed team with active problem-solving skills to fix 10 or more daily customer issues
- Other Leadership Opportunities**  
• Eagle Scout – Built a playground for TESSA, a safe house for abused women and children  
• Team Captain – Defensive Player of the Year, and 5A All-State Colorado Basketball Player

## International Volunteering Experience

- Bass Guitarist**, *Mountain Stings – BYU International Folk Music Ensemble* Jan 2019 – Jan 2020  
• Devoted 10+ hours per week to provide service and entertainment Provo, UT  
• Toured China, Utah, Idaho, and Wyoming with other International Music and Dance Teams
- Voluntary Representative**, *The Church of Jesus Christ of Latter-Day Saints* Jan 2015 – Feb 2017  
• Trained three new representatives from various countries, one on one Rosario, Argentina  
• Led two 26-person groups, increasing performance of each by more than 25% in 4 months