

# Joseph Black

(719) 360-8860 · [josephmartinblack@gmail.com](mailto:josephmartinblack@gmail.com)

LinkedIn: [www.linkedin.com/in/joseph-black-5b8447161/](https://www.linkedin.com/in/joseph-black-5b8447161/)

Portfolio: [portfolio-j03b.vercel.app/](https://portfolio-j03b.vercel.app/)

GitHub: [github.com/J03B](https://github.com/J03B)

Full-stack web developer leveraging a background in healthcare software and chemical engineering to provide unique perspectives on how end-users interact with software platforms. Trained at the University of Wisconsin Coding Boot Camp, earning a certificate in Full Stack Web Development. Innovative problem-solver with strengths in creativity, teamwork, and building projects from ideation to execution.

## Technical Skills

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- Languages & platforms: JavaScript, C++, Python, HTML5, MySQL, Java, C, Matlab, MongoDB, Express, React, Node, Handlebars, Bootstrap, CSS3, NoSQL, jQuery, REST, MERN
- Proficient in database programming
- Advanced in computational programming
- Proficient in Git and Agile methodology
- Proficient in RESTful Web API creation

## Projects

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**Fitness Focus** | <https://github.com/J03B/fitness-focus> | [fitnessfocus.herokuapp.com](https://fitnessfocus.herokuapp.com)

- Summary: Interactive and polished mobile-first PWA app to build and track live workouts
- Tools: React, Material UI, MongoDB, Express, Apollo, GraphQL, and Heroku.

**Story Seek** | [github.com/J03B/story-seeker](https://github.com/J03B/story-seeker) | [story-seek.herokuapp.com](https://story-seek.herokuapp.com)

- Summary: Interactive Google Books API search engine to save books to user account
- Tools: MongoDB, Express, React, Node (MERN), MD Bootstrap

**Goal Tracker** | [github.com/dhoneck/goal-tracker](https://github.com/dhoneck/goal-tracker) | [express-goal-tracker.herokuapp.com](https://express-goal-tracker.herokuapp.com)

- Summary: Group project full-stack application to track goals and their progress
- Tools: Sequelize, Express, MD Bootstrap, ChartJS

**No Mercy Trivia** | [github.com/J03B/no-mercy-trivia](https://github.com/J03B/no-mercy-trivia) | [j03b.github.io/no-mercy-trivia/](https://j03b.github.io/no-mercy-trivia/)

- Summary: Trivia game developed with a team by incorporating various trivia APIs
- Tools: jQuery, Bulma, JavaScript, Third Party APIs

## Engineering Experience

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**Technical Support Engineer, Epic**

Jul 2021 – Present

- Designed reporting model filters, metrics, and tutorials for Septic patient data Verona, WI
- Co-developed new functionality to compile customer reports in a new database
- Collaborated with IT, operations, and executives, providing solutions to increase efficiency 30%
- Developed methods to search and clean server objects, simplifying software build through SDLC
- Daily troubleshooting and debugging of technical issues across 40+ hospitals nationwide

**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

## Education

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- Coding Bootcamp, University of Wisconsin (UW)** May 2023  
Madison, WI
- A 24 week intensive program focus on gaining skills in web-development
- B.S. Chemical Engineering, Brigham Young University** Apr 2021  
Provo, UT
- Emphasis in Energy/Environment, Minor in Economics
  - GPA: 3.60/4.0 – BYU Academic Scholarship – Six-time recipient, half tuition

## Leadership Experience

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- Vice President of Internal Affairs, AIChE BYU Local Chapter** Feb 2018 – Jan 2020  
Provo, UT
- Diligently catalogued club history to win the Outstanding Chapter Award twice
  - 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  
Provo, UT
- Improved team efficiency by 66% by increasing organizational efforts
  - 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

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- Bass Guitarist, Mountain Stings – BYU International Folk Music Ensemble** Jan 2019 – Jan 2020  
Provo, UT
- Devoted 10+ hours per week to provide service and entertainment
  - 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  
Rosario, Argentina
- Trained three new representatives from various countries, one on one
  - Led two 26-person groups, increasing performance of each by more than 25% in 4 months