

Joseph Black

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Portfolio: j03b.github.io/Portfolio/

GitHub: github.com/J03B

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

Technical Skills

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

Projects

Fit Jib Workout | github.com/J03B/Fitness-App | Deployment Coming Soon

- Summary: Interactive Workout App to guide and track workout routines built from scratch
- Tools: Sequelize, Express, MD Bootstrap

Goal Tracker | github.com/dhoneck/goal-tracker | 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 | j03b.github.io/no-mercy-trivia/

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

Engineering Experience

Technical Support Engineer, Epic

Jul 2021 – Present

- Designed reporting model filters, metrics, and tutorials for Septic patient data Verona, WI
- Co-developed a reporting database to capture customer reporting build
- Collaborated with IT, operations, and executives, increasing clinician and software efficiency
- Developed methods to locate and clean up server objects and software build
- Daily troubleshooting of technical issues across over 30 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

Coding Bootcamp, University of Wisconsin (UW)

May 2023

- Average grade: 100%

Madison, WI

B.S. Chemical Engineering, Brigham Young University

Apr 2021

- Emphasis in Energy/Environment, Minor in Economics
- GPA: 3.60/4.0 – BYU Academic Scholarship – Six-time recipient, half tuition

Provo, UT