Joseph Black

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Portfolio: portfolio-hatiti09q-j03b.vercel.app/
GitHub: 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

- 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

Fitness Focus | https://github.com/J03B/fitness-focus | 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 | 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 | 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 trivia 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 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

Coding Bootcamp, *University of Wisconsin (UW)* — May 2023
- A 24 week intensive program focus on gaining skills in web-development — Madison, WI

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

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 costumer 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