Josh Bedwell

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joshbedwell.com
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Education

Master of Science, Molecular Science and Software Engineering
University of California at Berkeley

Aug 2024 - May 2026
Online | Part-time

Bachelor of Science, Computer Science
Emphasis in Software Engineering
Brigham Young University

Major GPA: 3.47
Aug 2016 - Apr 2023
Provo, Utah

Experience

Research Assistant
BYU Social Technology and Privacy Lab

Apr 2021 - May 2023
Provo, Utah

- Collaborated with teams on several projects within an interdisciplinary lab
- Applied NLP and open coding techniques to conduct analysis on participant data
- Lead the design and implementation of neurodiverse friendly social platform prototypes
- Designed and implemented lab website using django
- Co-author of two published papers

Capstone Experience
Partners Personnel

Aug 2022 - Apr 2023
Provo, Utah

- Spearheaded the complete lifecycle of a modern web app within Agile team
- Integrated Django with MS Active Directory auth and multiple database backends
- Created a robust unit testing framework, integrated with GitHub CI/CD
- Shipped fully tested product to company specification on schedule

Research Assistant
BYU Chemical Engineering

Dec 2020 - Aug 2021
Provo, Utah

- Overhauled and optimized *sootlib*, a C++ combustion simulation library
- Introduced automated testing using Google Test
- Improved library accuracy by implementing const correctness and a straightforward API
- Played a key role in the completion and publication of library, included as co-author

Publications

Smith, Garrett, et al. 2024. "I Know I'm Being Observed:" Video Interventions to Educate Users about Targeted Advertising on Facebook. In . ACM, New York, NY, USA, 28 pages

Mondal, Mainack, et al. "A Tale of Two Cultures: Comparing Interpersonal Information Disclosure Norms on Twitter." *Proceedings of the ACM on Human-Computer Interaction*, vol. 7, no. CSCW2, Oct. 2023, https://doi.org/10.1145/3610045.

Stephens, Victoria B., et al. "SootLib: A soot model library for combustion simulation." *SoftwareX*, vol. 22, 25 Mar. 2023, https://doi.org/10.1016/j.softx.2023.101375.

Skills

C, C++, CMake, Google Test	Java, Maven, Gradle, Junit, Android
Python, Django, Flask, Unittest, DRF	ML, PyTorch, SKLearn
PostgreSQL, DynamoDB, Neo4J, MongoDB	AWS Lambda, API Gateway, EC2