

# Josh Bedwell

Kyle, TX 78640

joshbedwell01@gmail.com

(512) 865-9936

linkedin.com/in/joshbedwell

joshbedwell.com

github.com/rcxwhiz

## Education

### Bachelor of Science in Computer Science

Emphasis in Software Engineering

Brigham Young University, Provo, UT

Major GPA: 3.47

Aug 2016 - Apr 2023

### Associate of Science

Utah Valley University, Orem, UT

GPA: 3.42

Aug 2021 - Apr 2022

## 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
- Designed and applied open coding schemas to characterize and gain insights into participant data
- Applied natural language processing techniques to conduct sentiment analysis on participant data
- Developed educational curriculum targeting neurodivergent social platform users
- 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- Spearheaded the complete lifecycle of a modern web app, replacing an outdated MS Access program, from design and implementation to successful deployment
- Integrated Django with MS Active Directory authentication and multiple database backends
- Created a robust unit testing framework
- Shipped fully tested product to company specification on schedule
- Leveraged GitHub CI/CD to enhance the reliability and quality of the project
- Collaborated within a Scrum Agile development framework

### 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
- Designed and implemented a behavior based polymorphic architecture, enhancing the flexibility and modularity of the library
- Played a key role in the completion and publication of library, included as co-author

## Teaching Assistant

BYU Computer Science & Chemical Engineering

Jan 2019 - Dec 2020

Provo, Utah

- Instructed students on diverse programming concepts in BYU courses, including:
- CS 142, Introduction to Computer Programming
- CS 235, Data Structures and Algorithms
- CS 236, Discrete Structures
- CH EN 263, Computational Tools for Chemical Engineers

## Publications

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Garrett Smith, Sarah Carson, Rhea G Vengurlekar, Stephanie Morales, Yun-Chieh Tsai, Rachel George, Josh Bedwell, Trevor Jones, Mainack Mondal, Brian Smith, Norman Makoto Su, Bart Knijnenburg, Xinru Page. 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

Mainack Mondal, Anju Punuru, Tyng-Wen Scott Cheng, Kenneth Vargas, Chaz Gundry, Nathan S Driggs, Noah Schill, Nathaniel Carlson, Josh Bedwell, Jaden Q Lorenc, Isha Ghosh, Yao Li, Nancy Fulda, Xinru Page. "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>.

Victoria B. Stephens, Josh Bedwell, Alex J. Josephson, Keturah Oldham, David O. Lignell. "SootLib: A soot model library for combustion simulation." *SoftwareX*, vol. 22, 25 Mar. 2023, <https://doi.org/10.1016/j.softx.2023.101375>.

## Skills

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C, C++, CMake, Google Test

Java, Maven, Gradle, Junit, Android

Python, Django, Flask, Unittest, DRF

Swift, SwiftUI

PostgreSQL, DynamoDB, Neo4J, MongoDB

AWS Lambda, API Gateway, EC2

ML, PyTorch, SKLearn

Git, Github (Actions), Jenkins