

Bennett R. Wu

Personal info redacted for online version. Please contact me via [LinkedIn](#).

[bwu.dev](#) || [github.com/bennettrewu](#) || [linkedin.com/in/bennettrewu](#)

Education

University of Illinois Urbana Champaign

GPA 3.95 / 4.00

Combined BS-MCS in Computer Science

Aug 2022 - May 2026

- **Coursework:** Algorithms, Artificial Intelligence, Computational Photography, Computer Architecture, Cloud Computing, Cryptography, Database Systems, Data Structures, Distributed Systems, Parallel Programming

Work Experience

Expedia Group

Chicago, IL

Software Development Engineer Intern

May 2024 - July 2024

- Eliminated 184 duplicate licenses by migrating Salesforce integration to merged instance
- Advanced new feature development by developing Kafka consumer to process ad campaign events in a Kotlin SpringBoot application
- Owned projects throughout CI/CD pipeline and ultimately deployed to production
- Developed communication skills while working with others to understand and validate project requirements

University of Illinois

Champaign, IL

Course Assistant (CS 128)

Aug 2023 - May 2024

- Facilitated student understanding of C++ concepts including pointers, memory management, object inheritance, file streams; receiving positive feedback for effective teaching

AbbVie

North Chicago, IL

Summer Worker

May 2023 - Aug 2023

- Slashed time from one week to a few minutes for nuclear magnetic resonance spectra analysis through automation with Python scripts
- Ensured seamless machine learning data collection by building web application on AWS for scientists to quickly view and correct machine predictions while generating result report

Projects

Grocery Aid

[github.com/bennettrewu/grocery-aid](#)

Docker, MySQL, React.js, Node.js, TypeScript

Jan 2024 - May 2024

- A web app for exploring and comparing prices of grocery items between stores
- Implemented several MySQL queries using stored procedures and transactions and containerized application using Docker Compose

Focus Stacking

[github.com/bennettrewu/focus-stacking](#)

OpenCV, Matplotlib, Python

Aug 2023 - Dec 2023

- Developed Python scripts to convert images taken at different focal depths into a depth map and focus stacked image (all parts of image in focus)
- Results found here (warning: bugs):
[youtube.com/playlist?list=PL5tZqkyvUAXMxNQaaoXuQU-cmZYY38q4M](#)

NER Extension

[github.com/bennettrewu/ner-extension](#)

PyTorch, Python, TypeScript

Aug 2023 - Aug 2023

- Built and trained transformer machine learning model detailed in *Template-Based Named Entity Recognition Using BART (Cui, Leyang et al., 2021)* to perform named entity recognition (e.g. people, locations)
- Implemented Chrome browser extension to allow user to interact with language model to highlight named entities on websites. Demo here: [youtube.com/v/Gim27R5bt1w](#)

Technical Skills

Languages: C/C++, Python, JavaScript, TypeScript, Java, Kotlin, MySQL, PostgreSQL, MongoDB

Frameworks: React.js, Node.js, Express.js, Mocha, Jest, SpringBoot, OpenCL

Libraries: OpenCV, NumPy, PyTorch, Tensorflow, Matplotlib

Technologies: Git, Docker, GCP, AWS, VS Code, IntelliJ, Github Actions, Spinnaker, Kafka, GNU/Linux