Bennett R. Wu

Personal info redacted for online version. Please contact me via _LinkedIn_.

bwu.dev || github.com/bennettrwu || linkedin.com/in/bennettrwu

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/bennettrwu/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/bennettrwu/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/bennettrwu/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: _youtu.be/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