Bennett R. Wu

Personal info redacted. Please contact me via *LinkedIn*.

bwu.dev || github.com/bennettrwu || linkedin.com/in/bennett-wu

Education

University of Illinois Urbana Champaign   GPA 3.98 / 4.00
Combined BS-MCS in Computer Science   Aug 2022 - May 2026
- **Coursework**: Algorithms, Artificial Intelligence, Computational Photography, Computer Architecture, Database Systems, Data Structures, Distributed Systems, Parallel Programming
- **In Progress**: Cryptography, Programming Languages and Compilers

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=PLzI2HALtu4JJXak1UzjpRWR-HawyVVQLw*

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: *youtube.com/v/cR2qvGNRs_A*

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