BROCK WINIECKI

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EDUCATION

B.S. CS, Expected in 05/2026
The University of Wisconsin - Madison - Madison, WI

SKILLS

Languages: Python, C, C++, Java, HTML, Javascript, CSS, SQL

ML Packages: Tensorflow, Pandas, Matplotlib, Numpy

Tools: Flask, Django, React, Git, AWS, Google-Cloud

WORK HISTORY

Software Engineering Intern, 11/2023 - Current
Confluent Health – Remote

- Developed backend code for PTspeech program using **Python**, **Flask**, **PostgreSQL**, and **AWS** to implement a **speech-to-text** solution with **Google Cloud** Speech-to-Text, translating audio from physical therapists' microphones into structured notes for clients and therapists, enhancing documentation efficiency in compliance with healthcare data privacy regulations, used by **1000+** physical therapist.
- Migrated the entire asynchronous telemedicine platform codebase from **Python 2.x** to **Python 3.x**, consisting of **2,000+** lines of code. Resolved **50+** compatibility issues and reduced the number of dependencies by **15%**, resulting in a more efficient and maintainable codebase impacting **25+** engineers.
- Integrated **OpenAI's LLM** to create an **AI chatbot** for the company website, providing users with instant support and information, improving user engagement and customer service, decreasing support tickets by **20%**.
- Designed and built **RESTful API** microservices using Flask which increased efficiency by **30%.**

Geek Squad Consultation Agent, 07/2023 - 11/2023
Bestbuy

- Developed relationships with repeat clients generating business and connections

- Worked directly with our resolutions team to resolve complex customer issues and rectify operations/logistical problems
- Establishing and maintaining working relationships with supplier representatives to ensure an in-depth understanding of all products carried by the store
- Developed sales strategies and lead coworkers on their implementation.

PROJECTS

- **Sauron**: Automated quantitative investment strategy achieving a **48.11%** average annual return over the past 20 years. Using **AWS EC2** successfully integrated **real-time data acquisition** for **automated trading** and **daily mobile notifications**, keeping users updated on portfolio and strategy status. Developed backend using **Python**, **Pandas**, and **MySQL**.

- **Sentiment Trader**: Stock market forecasting software analyzing **daily news sentiment** of up to **500** stocks, capable of processing **20,000** articles in minutes. Employs **Machine Learning** and a LSTM **Neural Network** developed using **TensorFlow** to forecast stock prices over a five-day timeline based on sentiment. Backtesting analysis utilizes **Python**, **Matplotlib**, **Numpy**, and **SQLite**.

- **Realty Radar**: Real Estate investment analysis tool that automatically evaluates specified markets and properties, with the capability to analyze over **10,000** property listings in seconds using **Zillow's API** and **Python**. Then Identifies which listings with the **highest ROI** using a proprietary algorithm built with **NumPy**, along with providing **comprehensive investment metrics** to **10,000**+ users.

- **Sourcify**: Online tool utilizing **Meta's LLM**, Llama V2, enabling students to effortlessly extract citations from various media sources, boasting over **5,000** users.