

Jack White

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Education

Purdue University	West Lafayette, IN
B.S. in Computer Science and B.S. in Artificial Intelligence	2023 – 2027
• GPA: 3.6/4.0 • Selected Coursework: Systems Programming (CS251), Intro to Analysis of Algorithms (CS381), Probability (MA416), and Data Mining and Machine Learning (CS373)	
Redwood High School	Larkspur, CA
• GPA: 4.2/4.0	August 2018–June 2022

Experience

BPM Microsystems	Houston, TX
<i>Summer Intern</i>	July 2025–August 2025
• Worked on BPM's internal chatbot system, Chip, • Updated Chip to use Model Context Protocol, developed system and unit tests, assisted with integration for Salesforce and Google Drive tools and encrypted API keys for security • Dramatically lowered cost of Chip calls and provided superior UX for BPM's engineers.	
Research in Computer Vision with Dr. Yung-Hsiang Lu	West Lafayette, IN
<i>Computer Vision Subteam</i>	Aug 2025 – Present
• Developed understanding of Computer Vision SoTA with goal of creating automated piano transcription to MIDI. The MIDI files are used in training to score against a generative model creating videos of music performance from sheet music alone.	

Leadership

Redwood High School	Larkspur, CA
<i>Music Teacher</i>	April 2023–June 2023
• Taught music theory, ear training and piano technique to high school students in classical, rock and jazz contexts.	
Day Trading	Online
<i>Personal Side Business</i>	June 2022–Present
• Momentum strategy based off of a high of day scanner with custom indicators. Proficient in writing pinescript.	

Projects

Recreating GPT-2	June 2024 – Present
• Pytorch, Cuda and ML theory • Followed Andrej Karpathy's "Let's Reproduce GPT-2" youtube video.	
C Shell	October 2024 – December 2024
• Wrote a C shell using lexx, yacc and C to recreate basic and advanced bash functionality from scratch.	

Skills

Programming Languages: C, C++, Python, Java, Assembly.
AI & ML: Pytorch, LangChain, Pandas, Numpy, OpenAI ChatCompletions and Requests API
Frameworks & Tools: SQL, Linux, fastai, REST-API, Git
Math: Probability, Calculus, Statistics, Financial indicators such as VWAP, OBV, EMA/SMA, etc.
Languages: Fluent in English, Moderate Spanish proficiency