ZANDER RAYCRAFT

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EDUCATION

Vanderbilt University — Nashville, TN
BS Computer Science and Mathematics / Minor in Data Science: *GPA: 3.4* — August 2021 - May 2025

WORK EXPERIENCE

Vanderbilt Institute for Software and Integrated Systems — Nashville, TN
Machine Learning Student Researcher — January 2023 - Present
- Developed Port-Hamiltonian-derived machine learning model leveraging computer vision to simulate a physical environment for testing of soft robotics
- Designed and prototyped a reactive soft robot and the embedded controller for the robot, written in C++

Puzzle — Remote
Web3 Full stack engineering intern — May 2023 - August 2023
- Built a non-hackable, zero-knowledge rollup based, full stack, Voting System using Typescript and Aleo's DSL Leo for production

Goldman Sachs — Remote
Student participant in Engineering Summit — December 2022 - April 2023
- Joined esteemed cohort, fostering industry connections for tech excellence. Completed specialized Goldman Sachs modules
- Developed a C++/Python based software for parsing and minimizing extensive data sets

Vanderbilt Student Volunteers for Science — Nashville, TN
Software Engineer/IT Board Executive — December 2022 - Present
- Overhauled website and improved runtime efficiency by ~34% of internal software for team communication and scheduling of student teaching events
- Responsible for managing a student volunteer group for organizing and teaching STEM lessons to middle school students

Urbangate Capital — Nashville, TN
Investment Analyst/Technology development intern — August 2021 - October 2022
- Developed proprietary investment risk analysis software utilizing REST api and Python, producing a 0% default rate on investments
- Underwrote real estate investment deals to indicate future value and quality

Phemex Financial Pte. Ltd. — Remote
Student Researcher — May 2022 - August 2022
- Published paper on blockchain governance, analyzing application and future prospects through development methods and on-chain analysis
- Published an article analyzing a Senate bill centered around blockchain technology promotion

SKILLS

Programming Languages:	Javascript, Typescript, Python, Rust, C++, HTML/CSS, Leo, MySQL, Flutter
Tech Stack:	Express.js, React.js, React Native, Linux/UNIX, Node.js, Flask
DevOp Skills:	REST api, Amazon Web Service (AWS), Docker, Automated testing (Pytest, Gtest)

PERSONAL PROJECT

Emotion Classifier *Python, Tensorflow, OpenCV, Numpy, Pandas*
https://github.com/zander-raycraft/emotion-classifier
The program designs and trains a neural network using Kaggle data, processes real-time camera footage for the model, and classifies and displays the user's current emotion instantly.

CAREER CERTIFICATES

Quantitative Research Certificate — JPMorgan Chase & Co.
Engaged with the Quantitative research division, delivering impactful contributions across four critical assignments; developing 4 python machine-learning models to analyze complex data, yielding ~99% accurate predictive insights — August 2023