

Joseph Bennett Zeru (he/him)

worldofjoseup.live | github.com/jose-up

Education

Bachelor of Science, Computer Science

Rose-Hulman Institute of Technology

Minors: Mathematics, Imaging, & Music

Terre Haute, IN

Coding Languages: C/C++, Python, Java, ARM Assembly, Verilog, TypeScript, Angular, SQL, Racket

Tools/Libraries: PyTorch/TensorFlow, Qiskit, Linux, Google Cloud, Microsoft Azure, Springboot, jQA

Relevant Courses: Deep Learning, Data Structures & Algorithms, Linear Algebra, Design & Analysis of Algorithms, Programming Language Concepts, Discrete Probability, Database Systems, Web Dev.

Work Experience

ISM Intern | DSML & NPOP Teams

June 2026 to August 2026

United Parcel Service

Louisville, KY

- Optimized existing Java backend services for relevant business logic for on-ground operations
- Presented and developed a testing environment for our web app to optimize code production
- Worked with the Data Science and Machine Learning team to analyze training data that improves upon existing Computer Vision and Deep Reinforcement Learning systems

Project Lead & Rose-Hulman Chapter Co-Founder

May 2025 to Present

BinaryHeart, 501(c)(3)

Terre Haute, IN

- Facilitated communication between local communities and national organizations for the national and Rose-Hulman chapter to increase funding opportunities and device donations
- Developed tools using Machine Learning to inform others of privacy policies in consumer tech
- Awarded Best Rookie Organization by RHIT Student Activities for our impact in Terre Haute

Coding Projects

Terms-of-Service User-Infringement Analyzer

May 2026 to Present

BinaryHeart Development Tools

- Implemented a Gemini API with Google AI Studio to accurately analyze privacy infringements
- Engineered prompts with morally neutral .md files supporting personal computing ownership
- Analyzed years of Terms-of-Service documentation and legal courses pertaining social media service access and private information access to provide a Gemini API with improved context

SSH Security with Machine Learning

June 2026 to Present

Personal Storage Server Tool

github.com/jose-up/neural-network-ssh-tool

- Repurposed a late 2014 Mac Mini as a lightweight remote Fedora video storage workstation
- Training a Neural Network to detect unrecognized devices that remote into the file system
- Solved discrete math for hash functions and Merkel Tree to improve the app's system usage

Budget Management Tool

May 2026

Product Development Challenge

worldofjoseup.live/coding-projects

- Used DOM Manipulation recognize gift items, so users can make informed pricing breakdowns
- Implemented localStorage for nonconsequential data storage for easy data privacy on device
- Designed with an dyslexia-friendly font to allow more users to use fundamental financial tools

Leadership & Involvement

Vice President

May 2025 to Present

BinaryHeart@RHIT

binaryheart.org/rose-hulman

Underclassmen Mentor

September 2025 to May 2026

CSSE Mentor/Mentee Program

Secretary

April 2026 to Present

RHIT Fashion Club