

# Devakh Rashie

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## EDUCATION

### The Ohio State University, Main Campus

*BS Computer Science Engineering & Theoretical Math; GPA: 4.0*

Columbus, OH

2027

- **Coursework:** Foundation of Higher Math, Tensor Calculus, Intro Analysis 1

## EXPERIENCE

### Pennyworks

*Full-Stack Engineering Intern*

Hoboken, NJ

Jun 2025 – Sep 2025

- Developed **Penny**, a crypto accounting assistant with a conversational interface and local LLM support, enabling intuitive exploration of on-chain transactions.
- Built a Python CLI tool (**csv2api-router**) that implements multi-chain detection (Ethereum, Polygon, Optimism, Arbitrum, Base) using URL heuristics to auto-generate API calls.
- Designed robust batch processing with parallel execution and error handling, significantly reducing manual crypto reconciliation time and improving operational efficiency.

### The Ohio State University

*Blockchain Research Assistant*

Columbus, OH

Sep 2024 – Present

- Built a replay attack detection system by monitoring blockchain transactions using Python and Solidity.
- Implemented security measures to prevent replay attacks across single and cross-chain environments.
- Developed DApps with a focus on secure cross-chain transaction validation and blockchain interoperability.

### Radus Software

*Software Engineering Intern*

Chantilly, VA

Jun 2022 – Sep 2022

- Developed a full stack intranet with NodeJS, HTML/CSS, and AWS.
- Implemented two-factor authentication using Google Authentication Services.
- Managed both front-end and back-end development for enhanced security and functionality.

## RECENT PROJECTS

### POSEidon: Fitness Coaching App | React Native, MediaPipe, ONNX, Firebase

Sep 2024 – Mar 2025

- Built a cross-platform mobile app that delivers real-time workout form analysis, rep counting, and voice feedback using on-device computer vision.
- Designed a custom pose estimation pipeline with joint angle analysis, movement tracking, and exercise-specific rep detection for 30+ strength exercises.
- Integrated quantized LLM (Phi-2) and TTS (Piper) for offline, personalized coaching, with secure data sync via Firebase.

### Jane Street Puzzles Solutions | Python, Monte Carlo Simulations, Manim

Jan 2025 – Present

- Developed algorithmic solutions for complex probability and combinatorics puzzles featured in Jane Street's monthly challenges.
- Implemented Monte Carlo simulations in Python to approximate answers for continuous probability problems where analytical solutions were intractable.
- Visualized solution convergence and geometric proofs using the Manim animation engine to verify theoretical bounds.

## EXTRACURRICULAR / LEADERSHIP

### Dhadkan (Competitive Coed A Cappella Team)

Columbus, OH

*Member*

Aug 2024 – Present

- Performed complex, cross-cultural vocal sets blending Hindustani classical, Bollywood, and Western pop/R&B before live audiences of 500-1,000+ in 4+ cities.

### Kappa Theta Pi (Professional Technology Fraternity)

Columbus, OH

*Blockchain Technology Lead*

Feb 2025 – Present

- Designed and mentored member-led projects such as NFT marketplaces, DAO governance simulations, and tokenomics-based game theory apps.
- Positioned KTP as a thought leader in blockchain by coordinating speaker events, alumni panels, and collaborations with campus blockchain groups.