

# Jacklyn R. McAninch

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## SUMMARY

Computer science major with 6 years programming experience, skills concentrated in system resource management and efficient algorithm design. Currently seeking internship opportunities for Summer 2023.

## EDUCATION

**Illinois Institute of Technology** - GPA 3.875

- *Bachelor of Science in Computer Science* by May 2023.
- *Master of Science in Data Science* by December 2023.

**Relevant Coursework:** Database Organization, Data-Intensive Computing, Data Structures and Algorithms, Machine Learning, OOP Concepts, Operating Systems, Software Development, Systems Programming.

## SKILLS

Python • C • C++ • Java • Golang • R • SQL • HTML • Linux • Git • CloudCompare • Spreadsheet  
*Familiarity with:* React.js • Node.js • Autodesk • ROBOTC for VEX Robotics • MIPS Assembly Language

## WORK EXPERIENCE

**The Boring Company** – Las Vegas, NV

- **Software Engineering Intern** (*Jan 2022 – Aug 2022*)  
Lead remote development of high-level APIs for external open-source cryptocurrency project, and built multiple custom services for device health diagnostics on the Las Vegas Loop.

**Illinois Institute of Technology** – Chicago, IL

- **Undergraduate Researcher – Steam Trap Microphone Shield** (*Aug 2022-Present*)  
Currently building firmware for a device to detect steam trap faults based on auditory data.
- **Undergraduate Researcher – Blockchain Cryptocurrency Networks** (*Aug 2021-May 2022*)  
Constructed a fast and low-power solution to cryptocurrency using Proof-of-Space consensus.
- **Undergraduate Teaching Assistant - Data Structures and Algorithms** (*Aug 2021-Present*)  
Prepare demos, provide guidance, and answer student questions for a core computing course.

## PROJECTS

- **Libdogecoin: a Clean C Library for Simplified Core Dogecoin Functionality** (*2022*)  
Assisted design of a v0.1 static C library to generate cryptographic key pairs and send valid transactions to the Dogecoin mainnet. Designed wrappers for this library in Python and Golang.
- **GigiCoin: Sustainable, High-Throughput Proof-of-Space Cryptocurrency** (*2021*)  
Built a cryptocurrency valuing network-dedicated disk storage rather than demonstration of hashing power. Received first place in the 2021 Grainger Computing Innovation Prize.
- **Campus Digital Twin: Maintaining High Accuracy Point Clouds** (*2021*)  
Collected LiDAR data and merged 50+ scans to create a 3D master point cloud of a campus building. Worked interprofessionally with architectural, civil, and mechanical engineers.

## LEADERSHIP

- **Association for Computing Machinery - Women's Chapter** (*2019-Present*)  
Vice President for executive board. Responsibilities include mass communicating events and information, coordinating and running events, and training new executive members.
- **Illinois Institute of Technology Camras Scholars Program** (*2019-Present*)  
Selected as a member of a reputable club for scholars exhibiting high quality in character, leadership, and work ethic. Received full tuition scholarship from said organization.
- **Illinois Institute of Technology Women's Varsity Soccer** (*2019-2021*)  
Starter for an NCAA Division III competitive soccer team, placing second in NACC conference.