Jacklyn R. McAninch

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SUMMARY

Computer science major with 5 years programming experience, skills concentrated in backend resource management and efficient algorithm design. Currently seeking working opportunities for Summer 2022.

EDUCATION

Illinois Institute of Technology - GPA 4.0
- *Bachelor of Science in Computer Science* by May 2023.
- *Master of Science in Data Science* by May 2024.

Relevant Coursework: Algorithm Analysis, Database Org., Data-Intensive Computing, Data Mining, Data Structures, Discrete Structures, Operating Systems, Systems Programming, Technical Communication.

SKILLS

Python · Java · C · C++ · R · MySQL · HTML · Linux · Git · Microsoft Office · Google Suite · CloudCompare
Familiarity with: Autodesk Apps· ROBOTC for VEX Robotics · MIPS Assembly Language · Multimedia Fusion 2

WORK EXPERIENCE

- **Undergraduate Researcher - Blockchain Cryptocurrency Networks** *(2021-Present)*
  Currently researching efficient implementation of Proof-of-Space validation methods for cryptocurrency, which provide a greener, faster, and more accessible alternative to Bitcoin.
- **Undergraduate Teaching Assistant - CS 331: Data Structures and Algorithms** *(2021-Present)*
  Interactively engaging students in live, supplemental demonstration sessions for a core computer science course, along with clearly answering questions over various platforms.

PROJECTS

- **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: Constructing and 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.
- **NP-Hard Optimization: Separating Points by Axis-Parallel Lines** *(2021)*
  Designed heuristic to determine minimum number of axis-parallel lines required to isolate all points on a given input set, implementing both local optimization and greedy approach.
- **"Vandy Hacks VII" Hackathon Project Submission: Zoom Chat Monitoring App** *(2020)*
  Collaborated with a hackathon team to create an app that analyzes Zoom chats for participation and flags expletives, built within only 24 hours to win the "Best Career Hack" Award.

LEADERSHIP

- **Association for Computing Machinery - Women's Chapter** *(2019-Present)*
  Director of Marketing for executive board. Responsibilities include mass communicating events and information, managing social media accounts, and assigning tasks to committees.
- **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-Present)*
  Started for an NCAA Division III competitive soccer team, placing second in NACC conference.