

# Dylan Kneidel

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## EDUCATION

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**University of Kansas** (Honors Program, G.P.A. – 3.89/4.0)  
*Bachelor of Science in Computer Science*

Lawrence, Kansas  
Expected May 2026

## PROFESSIONAL EXPERIENCE

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### **Cboe**

*C++ Software Engineering Intern*

Overland Park, KS  
June 2025–August 2025

- Designed and implemented a performance testing tool to proactively find order entry gateway inconsistencies.
- Iterated through C++ design processes in a production-level environment to reach nanosecond level precision in measurement.

### **University of Kansas**

*Undergraduate Research Assistant*

Lawrence, KS  
September 2022–May 2025

- Designed and instructed introductory quantum computing labs in a KU School of Engineering summer camp for high school students.
- Automated experiments on a state-of-the-art IBM quantum computer to compare against classical implementations.

### **Cerner Corporation**

*Software Engineering Intern*

Kansas City, MO  
January 2022–May 2022

- Utilized Rust to construct a tool for analyzing streams of PCAP data with an emphasis on memory efficiency.
- Exploited a data streaming format to provide over a 10x speedup compared to previous memory-intensive software.

## LEADERSHIP EXPERIENCE

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### **SELF Engineering Leadership Fellows Program**

*Fellow*

Lawrence, Kansas  
August 2022–Present

- Created and facilitated problem set for computer science section of high school design competition.
- Worked with fellows to design a rain cover for the unhoused at the Lawrence Community Shelter.

### **KU Association For Computing Machinery**

*President*

Lawrence, Kansas  
May 2024–May 2025

- Designed and facilitated weekly meetings featuring professors, industry engineers, and peers for 40 members.
- Oversaw executive board in planning tutoring, events, trip planning, fundraising, budget management, and marketing.

## SELECTED PROJECTS

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### **Ghost Protocol**

*Hack K-State Best Security Hack & Best Application of Redis*

Python  
November 2023

- Designed an easily configurable security-oriented facial recognition software prioritizing anonymity via face blur to mitigate camera usage risks.
- Optimized face blur functionality using convolution and created a database management interface using Flask.

## SKILLS

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- **Programming Languages:** C++, Python, JavaScript, Rust, Go, Java, Bash, HTML/CSS
- **Developer Tools:** GNU/Linux, Git, Jira, NodeJS, Flask, L<sup>A</sup>T<sub>E</sub>X
- **Concepts:** Agile Development, Data Structures, Algorithms, Quantum Computing, Computer Architecture
- **Spoken Languages:** English (Native), Mandarin (Conversational Fluency)

## CONFERENCES

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### **Preserving Data Locality in Multidimensional Variational Quantum Classification**

*SC23 Best Research Poster Finalist*

Denver, CO  
November 2023

- Proposed and verified speedup of a multidimensional quantum convolutional neural network over classical counterparts.