

# Rohan Kohli

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## EDUCATION

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### University of Illinois, Urbana-Champaign (UIUC)

Aug 2024 – Dec 2027

#### Bachelor of Science in Computer Engineering

- Relevant Coursework: Computer Systems and Programming, Introduction to Computing, Introduction to Electronics, Discrete Structures, Linear Algebra with Computational Applications

## PROFESSIONAL EXPERIENCE

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### Striim Inc.

Palo Alto, CA

#### Software Engineering Intern

Jul 2023 – Aug 2023

- Developed and validated Java-driven migration solutions that streamlined legacy code transitions and enhanced overall system efficiency by 20%, validating functionality through integration testing.
- Gained hands-on experience with PostgreSQL and MySQL, establishing databases for large-scale data streaming.

## TECHNICAL EXPERIENCE

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### EV Concept

Champaign, IL

#### Electrical Team

Aug 2024 – Present

- Designed battery management and power distribution subsystems across modules to spec with 10% margin.
- Assisted the embedded team in interfacing rearview camera systems with vehicle electronics and display modules.
- Deployed sensor network for autonomous features with a 34% increase in situational awareness in bench trials.

### Custom PC Building Business

Burlingame, CA

#### Founder & Computer Hardware Specialist

Jun 2020 – Jan 2024

- Customized high-performance PCs for gaming, creative, and professional use, generating \$1,000+ in revenue.
- Delivered advanced overclocking services, boosting speeds by 20–30% while maintaining safe thermal levels.
- Guided clients through component selection by balancing performance, compatibility, and cost efficiency.

### ThinkBridge Summer Camp

Pacifica, CA

#### Camp Counselor

Jun 2022 – Jul 2022

- Mentored underprivileged students in completing STEM-based projects, involving coding and critical thinking.
- Collaborated with camp staff to create an inclusive and nurturing environment to encourage camper engagement.

## PROJECTS

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### RecipeGram

- Built a full-stack web app for sharing recipes with a responsive frontend and backend within Project Code.
- Implemented database schemas and SQL queries to support user profiles, ensuring data integrity and scalability.
- Co-defined Node.js REST APIs with the frontend team to ship a smoother React UX from Figma mocks.

### Anagram Dictionary System

- Designed an anagram dictionary system that groups words by sorted character signature using a binary tree.
- Constructed a templated binary search tree in C++ with insertion, deletion, lookup, and traversal operations.
- Developed file I/O pipelines to read dictionary files and save ordered anagram groupings into output files.

### Vending Machine Controller

- Engineered combinational logic in SystemVerilog to generate and dispense outputs based on coin input states.
- Minimized gate count using NAND/NOR/NOT gates, reducing area by 15% for future breadboard deployment.

## SKILLS

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- **Languages:** Java, Python, C/C++, Verilog, JavaScript, HTML/CSS, Assembly, Swift, PostgreSQL, MySQL
- **Frameworks, Libraries & Tools:** React, Node.js, Next.js, SwiftUI, NumPy, Pandas, Git, Figma, Linux, AWS