

Rohan Kohli

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EDUCATION

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

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.
- Utilized AWS services to deploy and manage cloud-based data pipelines, enabling scalable and reliable data processing across distributed systems.

PROJECTS

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.

AssignmentSync

- Implemented OAuth 2.0 for Google Classroom with secure token storage and support for additional platforms.
- Designed PostgreSQL schema with Prisma ORM for assignments and authentication tokens, including relational models, migrations, and query optimization with indexing.
- Built a full-stack homework aggregation platform using Next.js, TypeScript, React, and PostgreSQL, integrating data from multiple educational platforms through APIs and ICS file parsing into a singular calendar interface.

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.
- Implemented logic outputs on an FPGA/breadboard testbed to simulate real-time coin detection and dispensing.

LEADERSHIP & ACTIVITIES

EV Concept

Champaign, IL

Electrical Team

Aug 2024 – Present

- Designed battery and power distribution subsystems across modules to spec, including PCB layout using KiCad.
- 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 – Present

- 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.

SKILLS

- 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