

# Will Ham

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## EDUCATION

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- **University of Colorado Boulder** Boulder, CO  
*Bachelor of Arts in Computer Science & Minor in Creative Technology and Design* *Expected Grad: May 2024*

## EXPERIENCE

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- **Snag Delivery** Boulder, CO  
*Founding Software Engineer* *Mar 2022 - Present*
  - **Internal Driver App:** Built a proprietary driver delivery dispatching application named “Nexus” to replace a third-party app. The app enabled drivers to check in, claim orders, execute deliveries, and capture customer’s IDs through photos.
  - **Customer Communication:** Revamped the customer communication strategy by developing an efficient GoLang CLI tool, leveraging the Vonage API, to disseminate promotional information and store updates via text messages to a substantial customer base.
  - **Geolocation:** Integrated Mapbox API into the TypeScript backend to enable real-time geolocation of drivers, allow for tracking of orders, showcase the distance to the customer order and display most efficient route between orders in the queue.
  - **Analytics:** Designed and implemented scripts to monitor and analyze driver performance. Optimized analytics through Google’s Data Studio to showcase insightful statistics in a user-friendly graphical interface.
  - **Intern Management:** Led and mentored a team of three interns, effectively guiding them through various project stages from inception to successful completion. My focused leadership approach not only enhanced team collaboration and skill development but also ensured the timely and quality delivery of all projects.
- **Snag Delivery** Boulder, CO  
*Store Operations Manager* *Dec 2021 - Aug 2022*
  - **Management:** Successfully managed store with over 50 college employees, ensuring smooth day-to-day operations. Overseeing fulfillment of tens of thousands of orders per month ensuring ten minute delivery to customers.
  - **Inventory:** Coordinated the ordering and receiving of all inventory ensuring that all products were readily available to customers.
  - **Schedule:** Assigned schedules for employees, balancing the needs of the business with the employee availability. Also while optimizing labor utilization and staffing efficiency.
- **Kage AIO** Remote  
*Co-Founder* *Dec 2020 - Apr 2021*
  - **Auto Checkout:** Developed a high-performance auto checkout module for a popular United States sneaker website, resulting in increased check-out times and generating substantial profits for users.
  - **TLS Fingerprint Replication:** Successfully replicated the fingerprints of popular web browsers such as Chrome and Firefox, using uTLS package.
  - **Analytics:** Designed an analytical GoLang API that tracked essential metrics including revenue transactions and volume of successful transactions.
  - **Overall Statistics:** Demonstrated exceptional programming skills by contributing to the robustness of Kage with a total of over \$1.5 million dollars spent between users and close to 100,000 checkouts.

## PROJECTS

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- **AI Icon Generator:** Developed a dynamic, full-stack icon generation application using Next.js and TypeScript, integrating tRPC for efficient API communication and Prisma for robust database management. Leveraged React’s reactive capabilities for an intuitive user interface, enabling users to customize and generate icons based on their input.
- **Shopify Monitor:** Developed a real-time Shopify Product Availability Monitor in Go, featuring Discord integration for instant stock alerts. This tool efficiently tracks and notifies users about product restocks on Shopify stores, enhancing the shopping experience.

## PROGRAMMING SKILLS

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- **Languages:** Typescript, Javascript, Go Lang, Python, C++, HTML, CSS, Flutter
- **Technologies:** NextJS, Tailwind, Firebase, Mongo, SQL, Git, GDB, Selenium, Wireshark, Burp Suite, Charles Proxy, Google Cloud Platform, AWS, Stripe API, Unix