



ARTHUR RIECHERT

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Atlanta, GA 30309, United States

SKILLS

- **Programming Languages:** TypeScript/JavaScript, C, Python, RISC Assembly, Java, Go
- **Web Technologies:** HTML/CSS, Next.js, React.js, Tailwind CSS, Node.js
- **Database & Cloud Technologies:** MySQL, Firebase, Redis
- **DevOps & Version Control:** Git, Docker, Make, Docker Compose
- **Other Tools & Technologies:** Unix/Linux, Bash, Excel, React Native, Expo, Vitest, Vite

EDUCATION

- **Georgia Institute of Technology** August 2023 – May 2026
Bachelor of Science in Computer Science Atlanta, GA
 - 3.4/4.0
 - Courses: Object-Oriented Programming, Computer Organization, Systems and Networks, Project Design, Object-Oriented Design, Data Structures & Algorithms, Discrete Math, Database Systems, Design & Analysis of Algorithms, Digital Design Lab

EXPERIENCE

- **Reworkd AI** [<https://www.reworkd.ai>] March 2023 – August 2023
Contract Technical Writer Remote
 - Wrote and edited technical blog articles and social media posts about generative AI, reaching over 20,000 customers and enhancing product engagement.
 - Created documentation for troubleshooting common software issues, which was viewed by over 6,000 users.

PROJECTS

- **PokeFindr: Interactive Map of Pokémon TCG Vending Machines** November 2024 - Present
Tools: React.js, Mapbox GL, Next.js, TypeScript, Tailwind CSS, Node.js, Git, Python, BeautifulSoup, PostgreSQL [<https://www.pokefindr.app/map>]
 - Built a responsive web application serving **5,000+ monthly users**, featuring an interactive map of Pokémon TCG vending machine locations, achieving **front-page ranking on Google**.
 - Integrated Mapbox GL for real-time location visualization and user-friendly map features such as markers, popups, and search.
 - Maintains a **0.2 s First Contentful Paint (desktop)** and **95 + Lighthouse Performance score** in production.
 - Optimized performance and user experience using lazy loading, code splitting, debouncing, and point clustering.
- **LinkIs.live: URL Shortener** April 2025 - Present
Tools: Typescript, React.js, Git, Vitest, Docker, Docker Compose, Redis, Go [<https://github.com/riechert-arthur/linkis.live>]
 - Built a full-stack web app that resolves short URLs using Redis for low-latency access, with input validation to block invalid formats and path traversal attempts.
 - Containerized the stack with Docker Compose, enabling single-command local setup and portability between development environments.
 - Wrote **50+ unit and integration tests** with Vitest and Go's testing package, covering 90% of edge cases.
- **Upcycle Build: Digital Transformation for Recycling Facility Operations** August 2024 - Present
Tools: TypeScript, React-Native, Firestore, Expo, Git [<https://github.com/cwyner/JIB-4342-RamblinRecyclers>]
 - Led development of a cross-platform iOS/Android app with a Firestore backend to digitize and streamline material intake workflows, enabling a cloud-based system at high-volume recycling centers in Atlanta.
 - Applied agile project management techniques using Jira, Git, and Microsoft Teams to ensure steady progress for a year-long project.
 - Collaborated directly with an industry client, leveraging continuous feedback, usability testing, thorough technical documentation, and iterative design to refine the app based on real-world needs.
- **Flight Management Software: MySQL Database** January 2025 - April 2025
Tools: MySQL, MySQL Workbench
 - Designed and implemented a MySQL database to support core airport operations, including flight scheduling, flight tracking, passenger/pilot management, and airplane maintenance, while adhering to schema constraints.
 - Developed a set of stored procedures to provide safe and convenient ways for users to interact with the database without compromising data integrity.
 - Created a series of views to enable clear visualization of complex relationships between flights, aircraft, crew, and maintenance schedules for easier query and analysis.