John Geddes

Software Engineer
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SUMMARY

Full-stack and mobile engineer with a Computer Science degree. Built Census, the asset management platform in daily use at The Aspen Group, and Cipher Tracker, an encrypted React Native app with 3,822 passing tests.

SKILLS

Languages: TypeScript, JavaScript, SQL, Python, Swift, Kotlin, HTML, CSS
Frontend and mobile: React, Next.js, Vite, Tailwind CSS, React Native, Expo, EAS Build, iOS Live Activities
Backend and cloud: Node.js, Express, Firebase, Cloud Functions, Google Cloud Run, Cloud SQL, Vercel
Data: MySQL, Firestore, SQLite, IndexedDB
Testing and tooling: Node test runner, Jest, Docker, GitLab CI, GitHub Actions, SonarQube, Git

WORK EXPERIENCE

Senior Audio Visual Engineer
The Aspen Group (TAG) · Chicago, IL — Sep 2025 to Present

- Built Census, an asset management platform in React 19 and TypeScript with an Express gateway, MySQL on Cloud SQL and scheduled jobs on Google Cloud Run.
- Integrated 14 outside systems, including Intune, Jamf, ServiceNow and FedEx, into **one record per device** across 48,243 assets.
- Added Microsoft Entra ID sign-in so every change is recorded under the name of the person who made it.
- Moved 41 read surfaces from REST API calls to direct SQL; **one report fell from 19.5 minutes to 1.3 seconds**.
- **Cleared all 43** SonarQube blocker and critical findings; the GitLab pipeline runs the 716 test files on every push.

Computer Science Intern
Brag House · Part-time — Jan 2022 to May 2022

- Developed front-end features for the company's iOS app and website in React Native, React, HTML and CSS.
- Designed and implemented the Brago game inside the iOS app, then redesigned the app's look in Figma.
- Ran user-testing sessions, and the feedback led to UI changes.

Software Intern
TLC MilliMeter Wave Products · Minneapolis, MN — Jan 2020 to Aug 2020

- Moved the company from an on-site code repository to Bitbucket and trained staff on Git so the switch held.
- Flew drones for a US Air Force collaboration on a radar system for identifying hostile drones.

Audio Visual Specialist II · Discover · Chicago, IL — Feb 2025 to Sep 2025
Audio Visual Technician Tier 2 · Abbott · North Chicago, IL — Oct 2024 to Feb 2025
AV Support Specialist · Kirkland & Ellis · Chicago, IL — Mar 2024 to Jun 2024
Audio Visual Technician · Loyola University Chicago · Chicago, IL · Part-time — Jan 2021 to May 2023

PROJECTS

Cipher Tracker
cipher-app.org

React Native health tracker for iOS and Android that encrypts every entry on the phone with AES-256, so the server holds only ciphertext. Lock-screen timers in Swift and Kotlin, 3,822 passing tests. Being prepared for the App Store.

Rambler Registrar
www.ramblerregistrar.com

Course scheduler for Loyola students, built on Expo, Express and Puppeteer. Builds every conflict-free timetable from up to eight courses and scores each one, walking time between buildings included. Covers 2,082 courses.

EDUCATION

Loyola University Chicago
Bachelor of Science in Computer Science, Minor in Philosophy