

Chuck Stein

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Work Experience

WHOOP | *Android Engineer* | Boston, MA

January – June 2021, June 2022 – Present

Key Skills: Kotlin, Jetpack Compose, coroutines, Flow, MVVM architecture, Gradle, Robolectric, Koin, Retrofit, Paparazzi, modular architecture, JUnit, MockK, Espresso, Jetpack Navigation, feature flags, Node.js, Java, SQL, A/B testing

- Closed a 6-month progress gap between Android and iOS so that both platforms can release a feature simultaneously
- Architected a complex flow in the app involving user input, dynamic UI, Bluetooth device communication, state serialization and restoration, backend service calls, and interaction with a JNI library
- Fulfilled duties as release coordinator for multiple weekly builds and deployments of the app to the Google Play Store
- Created a reusable fuzzy search algorithm after recognizing the need to fix a frustrating search experience in the app
- Developed a Retrofit wrapper interface to remove boilerplate and centralize best practices for network error handling
- Updated our version of Compose by adopting the Bill of Materials and writing a Gradle plugin to integrate Compose with any feature module, after pushing for prioritization of this important dependency update to meet design needs
- Surpassed responsibilities as an Android Engineer by fulfilling backend needs and completing full stack projects
- Identified and resolved inconsistencies between existing app UI and intended designs by consulting design team
- Designed, implemented, and documented backend infrastructure critical to a major hardware release
- Monitored safe rollouts of any changes to production code by use of feature flags

Tripadvisor | *Full Stack Software Engineer* | Needham, MA

January – June 2020

Key Skills: Java, Spring MVC, TypeScript, React, jQuery, RxJS, CSS, JUnit, SQL, Gradle, Linux

- Expedited a GDPR compliance project by designing a frontend interface between a 3rd party cookie consent tool's JavaScript API and our 1st party Google Tag Manager containers and backend personalization tracking service
- Refactored a cookie management system to accommodate newer web standards
- Rebuilt UI components to meet an updated spec for a project to remove technical debt from a decades-old codebase
- Onboarded a team in another country taking over a project by documenting necessary domain knowledge
- Contributed to codebases across two subsidiary websites, with varying architectures and development practices

Bose Corporation | *Software Engineer for VR/AR Research & Applications* | Framingham, MA

January – July 2019

Key Skills: Swift, Java, MaxMSP, C

- Built first prototypes and demo experiences for patent-pending audio augmented reality technology
- Pitched and demoed to stakeholders to gather support and sponsorship for a new research project
- Designed three iOS apps and a desktop audio processing demo to showcase innovative technology and its use cases
- Evaluated performance of different prototype iterations by developing an Android app to measure audio latency
- Collaborated with a firmware engineer to deliver embedded tech demos
- Directed new project management techniques, earning Lean Six Sigma Yellow Belt Certification

Personal Projects

[Libzy](#)

March 2020 – Present

Key Skills: Kotlin, Jetpack Compose, MVVM architecture, coroutines, WorkManager, Gradle, OAuth 2.0, Dagger, Glide, Jetpack Navigation, Room, Spotify Web API, Spotify Android SDK (App Remote and Auth libraries)

- Built an Android app which recommends albums to listen to from the user's Spotify library, based on current mood

[Symphony of Babel](#)

September – November 2019

Key Skills: Python, Flask, JavaScript, React, Axios, REST

- Developed a web app cataloging every possible snippet of sound, inspired by Jonathon Basile's [Library of Babel](#)

Education

Northeastern University | *Khoury College of Computer Sciences* | Boston, MA

September 2017 – May 2022

Bachelor of Science in Computer Science & Music Technology, Music Recording Minor

Honors: *summa cum laude*, Dennis Miller Award for Excellence in Music Technology, Dean's List (all semesters)

Activities: Beta Theta Pi, Tastemakers Magazine – Content Writer, Green Line Records – Recording Department