Dominic Zirbel

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 github.com/dzirbel

SUMMARY   Senior Android engineer with expertise in Kotlin, Compose, Android architecture, and Gradle

WORK EXPERIENCE

VERKADA · *Senior Software Engineer* · November 2023 – Current (2 months)
Developed features for the Verkada Command Android app

THUMBTACK · *Senior Software Engineer* · June 2018 – May 2023 (5 years)
- On the Growth team (2018–20), I built features on the Kotlin Android apps and backend in Go/PHP/Python.
- As the sole Android engineer on the Platform team (2020–23), I was responsible for app architecture, CI/release pipelines, build tools, and developer productivity across the Android team of ~15 engineers.
- I conceived, planned, and drove adoption of new technologies including MVVM, Compose, Jetpack Navigation, and Coroutines, culminating in a new UI framework ●◗ Cork.
- With a promotion to Senior Software Engineer in September 2021 I focused in particular on mentoring, building team expertise, and encouraging best practices.

THUMBTACK · *Software Engineering Intern* · Summer 2017
Rebuilt the login flow for Thumbtack's Android customer app in Kotlin and launched it as an A/B experiment

IMAGING SYSTEMS TECHNOLOGY · *Engineering Intern* · Summer 2016
Developed an Android tablet app to monitor and control a manufacturing process via Bluetooth

AGILE OASIS TECHNOLOGIES · *Full-stack Intern* · Summers 2015 and 2013
Full-stack design and engineering for a variety of contracted websites

METABOLISMFUN · *Full-stack Contractor* · July 2013 – Jan 2015
Created an online educational game with Dr. Neocles Leontis at BGSU to teach metabolic pathways

PERSONAL ROBOTICS, CMU · *Research Intern* · Summer 2012
Built an Android tablet app to provide a simple interface for controlling the humanoid robot HERB via ROS

PROJECTS

 KOTIFY
May 2023 – Present

Desktop client for Spotify I created to improve library management for power users. Features include track ratings, genre organization, and improved performance with aggressive local caching. Built in Kotlin with Compose Multiplatform and Spotify's web API.

OPEN SOURCE

Contributed to open source projects including detekt and assertk

Created and published open source libraries, including:
- compose-material-context-menu, an implementation of context (right-click) menus for Compose Multiplatform
- gson-bijectivereflection, a library enforcing strict deserialization of JSON
- robopower, an engine and heuristic-based AI players for a simple card game

SKILLS

 ANDROID

Comprehensive knowledge of the native Java and Kotlin APIs, build tools, and modern architecture components including MVVM, Compose, Jetpack Navigation, and Coroutines

Experience deploying and maintaining apps with millions of users

PROGRAMMING

In-depth experience with Kotlin/Java; comfortable with Go, Rust, and Python

Full-stack experience: GraphQL, Go, PHP, SQL, JavaScript, and HTML/CSS

EDUCATION

CARNEGIE MELLON UNIVERSITY · Class of 2018
B.S. in Mathematical Sciences with an additional major in Computer Science