Dominic Zirbel

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Experience

Thumbtack *Senior Software Engineer* June 2018 - Present	Worked on the Growth and Platform teams as an Android engineer. I built features and ran A/B tests on native Android apps and backend in Go/PHP/Python. As part of the small Mobile Infrastructure team I managed app architecture, code quality, CI/release pipelines, and developer productivity for the entire Android team. I conceived, planned, and drove adoption of new technologies including Jetpack Compose, Room, and Kotlin Coroutines. The apps were built primarily in Kotlin with heavy usage of the reactive paradigm via RxJava.
Kotify *Solo Project* 2019 - Present	A work-in-progress side project providing a third party desktop client for Spotify via its web API which I created and developed individually for enjoyment and practice. Built in Kotlin with JetBrain's multiplatform bindings for Jetpack Compose, the project aims to add new features on top of Spotify's platform to improve personal library organization.
Thumbtack *Software Engineer Intern* Summer 2017	Rebuilt the login flow in the Thumbtack customer Android app from the ground up. I added account creation and Facebook login, modernized the UI, and ran A/B tests.
Imaging Systems Technology *Android Intern* Summer 2016	Developed an Android tablet app to monitor and control a manufacturing process. The app received live data via Bluetooth, calculated aggregates, displayed realtime graphs, and kept logs of past runs. I focused on handling large amounts of data in an extensible way and presenting the data in ways that facilitated the team's decision making.
MetabolismFun *Full-Stack Web Engineer* July 2013 - Jan 2015	Created the online educational game MetabolismFun (GitHub source) with Dr. Neocles Leontis at BGSU to teach metabolic pathways to college students in an engaging, interactive way. I was responsible for programming, design, and deployment.
Agile Oasis Technologies *Web Developer Intern* Summer 2015, 2013	Designed and built a variety of contracted websites, and including a social network Project Qi connecting users to non-profitss. I worked closely with the clients to craft the experiences they had in mind.
Personal Robotics *Research Intern* Summer 2012	Designed an Android tablet app for in-house use with the humanoid robot HERB. The app provided a simple interface for normally difficult tasks such as adjusting motor position, displaying sensor output, or sending a direct command.

Skills

Native Android Engineering	Comprehensive knowledge of the native Java API, including Kotlin, Gradle, Compose Worked with industry standards, mature codebases, and large-scale deployments
Programming	Koltin/Java, Go, Python: solid foundation in the style and uses of these languages Web development: GraphQL, Go, PHP, SQL, JavaScript, and HTML/CSS Linux: daily usage of top-level components (CLI, Bash scripting, Git)
Mathematics	Strong academic core with a focus on Analysis, Combinatorics, and Abstract Algebra Analytical thinking, problem solving, and abstract reasoning

Education

Carnegie Mellon University Class of 2018	BS in Mathematical Sciences with an additional major in Computer Science Cumulative GPA: 3.41