

SHAWN WITTE, PHD

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 [Minirogue.github.io](https://github.com/Minirogue) ·  [/in/shawn-witte](https://in/shawn-witte) ·  github.com/Minirogue

EMPLOYMENT

Software Engineer III, Android

2022–current

Tinder

Remote

- Owns the authentication domain for Android.
- Implemented an integration with Arkose for login captchas.
- Implemented LINE as a third party option for logins.
- Led a project to reorganize and clean up the authentication code for better long-term maintenance and development.
- Participates in our Android modularization working group.

Android Developer/Senior Software Engineer (Android)

2020–2022

Stride Health

San Francisco, California

- Worked on the Stride mileage, expense, and tax tracker Android app.
- Promoted use of Kotlin coroutines with best practices to migrate away from RxJava.
- Helped introduce rigorous unit testing standards.
- Rewrote the mileage tracking service, updating the maintainability of the app.
- Migrated from Travis CI to Circle CI and introduced a more regular release cadence.
- Initiated regular cross-platform technical discussions between iOS and Android engineers.

Associate Instructor/Teaching Assistant/Research Assistant

2013–2019

University of California, Mathematics Department

Davis, California

- As instructor of record, responsibilities included lesson planning, lecturing, creating quizzes and exams, submitting final grades, and holding office hours for calculus for biology and medicine (Summer 2014, Summer 2015) and short calculus (Fall 2014). For all other quarters I have either been funded for research or working as a teaching assistant for various upper and lower division courses with the following duties: grading homework, quizzes, midterms, and final exams, holding office hours, and running weekly discussion sections.

EDUCATION

University of California, Davis

2019

PhD, Mathematics

3.75/4.0 GPA

Central Michigan University

2013

Master of Arts, Mathematics

3.8/4.0 GPA

Central Michigan University

2010

Bachelor of Science, Mathematics

3.9/4.0 GPA

TECHNICAL SKILLS AND TOOLS USED

Android development, Java, Kotlin (including coroutines), Gradle, model-view architecture (MVP, MVVM, MVI), Koin, Dagger 2, Hilt, DIY dependency injection, unit testing best practices, Mockito, Mockk, Room, SQLDelight, Retrofit, OkHttp, Ktor, Git, CI/CD, Travis, and CircleCI.

RESEARCH AND PROJECTS

HoloCanon: An Unofficial Star Wars Canon Tracker

Android App

- Holocanon is an Android app that I wrote from scratch to keep track of all existing canonical Star Wars content and which pieces I have read or watched so I can easier select books at the library.
- The user is able to filter and sort media by various methods including by user-defined checked items.
- The app is written with Model-View-ViewModel (MVVM) architecture using Room to persist the Model layer locally as an SQL database and using Dagger 2 as a dependency injection framework.
- The codebase is a combination of Java and Kotlin, making use of Kotlin's coroutines.
- Future plans for the app include expanding to iOS using Kotlin Multiplatform, and implementing a more robust API using Ktor.
- Most recent codebase can be found at <https://github.com/Minirogue/SWMediaTracker>. The published app can be found on the Google Play store at <https://play.google.com/store/apps/details?id=com.minirogue.starwarscanontracker>.