

# PADAM CHOPRA

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## SKILLS

**Languages** Kotlin, Java, SQL, C++/C, TypeScript, JavaScript, Python, Bash, Scala, Dart, and Web  
**Tools/Frameworks** Git, Android Studio, Jetpack, Dagger2/Hilt, Retrofit, RxJava, OpenAPI, and Firebase

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## EXPERIENCE

**Software Engineering Intern (Android), 1Password** May - Aug 2022

- Fixed item list state management throughout the app by using Kotlin state flows and coroutines.
- Refactored the autofill service to decouple implementation from android system entities and added serialisation.
- Created an expandable test suite for autofill that scores service requests and responses against a custom set of rules.

**Software Engineer (Part-time), Ritual Technologies Inc.** Jan - Mar 2022

- Continued implementing and improving features for both the client and merchant mobile applications.

**Software Engineering Intern (Android), Ritual Technologies Inc.** Sep - Dec 2021

- Led the adoption of Jetpack Compose to build faster and more consistent UI using Kotlin instead of XML.
- Implemented a new rewards feature with 150k+ invocations to drive growth by using Compose and Kotlin coroutines.
- Created a reusable components library in Compose, added new feature modules, and fixed bugs.

**NLP Developer Intern, Ceridian Dayforce** Jan - Apr 2021

- Improved Named Entity Recognition for non-English names and client-specific entities by increasing match scopes for misspelt, and phonetically similar phrase occurrences within text queries.
- Automated builds and setup CI/CD pipelines for a new Java microservice.

**Software Engineering Intern (Android), Ceridian Dayforce** May - Aug 2020

- Led initiative to improve app-accessibility by adding support for 6 native android accessibility tools.
  - Improved load time and reduced network overhead by implementing a paginated suggestions field component.
  - Reduced steps required to launch a user's favourite features by adding dynamic app shortcuts.
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## PROJECTS

<b><u>Biblioteca</u></b>	<i>[Android, Kotlin, Jetpack, Compose]</i> An android package to show a library of the app theme and reusable components.
<b><u>Taskout</u></b>	<i>[Android, Kotlin, Jetpack, Dagger/Hilt, Room]</i> An android app to create, manage and delegate tasks with categorization.
<b><u>Practikality</u></b>	<i>[Android, Java, AWS, Google Cloud, Azure]</i> An android app to help the mute, deaf, and visually impaired interact better.
<b><u>Habitus</u></b>	<i>[Flutter and Dart, Firebase]</i> A mobile app to help people track and build habits with a crowd-sourced habit library.

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## ACHIEVEMENTS

- **Prize Winner** at DeltaHacks VI, McMaster University for building a blockchain merchant Android application.
  - **Project mentor** for Sustainable Computing Research Group's mobile apps in **Google Summer of Code**.
  - **World Finalist** for **Microsoft Imagine Cup** at Microsoft HQ, WA for building an Azure integrated Android app.
  - **Grand Prize Winner** in **Google Code-in** and invited to Google HQ, CA for completing 70+ Android, Python, and Angular tasks for an open-source organisation.
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## EDUCATION

**Bachelor of Computer Science (4B)** Sep 2019 - Apr 2023 (expected)  
**University of Waterloo**

- \$15K Computer Science Scholarship; Dean's Honour List; Presidential Scholarship of Distinction.
- Courses: Application Development, OOP, UI, Algorithms, Data Structures, Database Management, and Mini compilers