

# PADAM CHOPRA

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## SKILLS

**Languages** Java, C++/C, Kotlin, TypeScript, JS, Python, Bash, Scala, Dart, Scheme, Go, Web, and SQL  
**Tools** Git, Android (+ Jetpack), Dagger2/Hilt, Flutter, Vue, Node.js, AWS, Mongo, Postgres, and Firebase

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## EXPERIENCE

**Software Engineering Intern, Ritual Technologies Inc.** Sep 2021 - Present

- Innovating and improving features for Ritual's mobile applications for both clients and merchants.

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

- Enabled multiple company products to leverage NLP capabilities by setting up a **microservice** in Java and Spring.
- Improved **Named Entity Recognition** for non-English names and client-specific entities in text queries by increasing match scopes for misspelled, and phonetically similar entity occurrences within a query.
- Automated builds and setup CI/CD pipelines for the microservice in the organization server.

**Android Developer Intern, Ceridian Dayforce** May - Sep 2020

- Led initiative to improve app-accessibility by adding support for 6 native android accessibility tools.
- **Increased speed** by 20% and reduced network load by implementing a paginated suggestions module.
- Reduced steps required to launch a user's favorite features by 60% by adding app shortcuts.
- Reworked UI components to look consistent by implementing a styling and theming library within the app.

**Full-stack Developer Intern, AYORents** Jul - Sep 2019

- Allowed easier scalability by creating a REST API using Node.js and re-architecting cloud clusters on MongoDB.
  - Reduced data fetching and processing time by 30% by adding data aggregation pipelines in TypeScript on the server.
  - Implemented reusable widgets for the cross-platform mobile application using Flutter.
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## PROJECTS

**TIL** *[Vue.js, TypeScript, Node.js]*  
A platform for developers to create utility out of recording and exploring code snippets.

**Habitus** *[Flutter, Firebase]*  
A mobile app to help people track and build habits with a crowd-sourced habit library.

**Practikality** *[Android, Java, Azure]*  
An android app to help the speech, hearing, and visually impaired interact better.

**Taskout** *[Node.js, Express, Mongo, HTML/CSS]*  
A web app with pin-secured task sharing to primarily allow creating tasks for other contacts.

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## ACHIEVEMENTS

- **Undergraduate Research Assistant** at UWaterloo; using ML to monitor and sustainably irrigate greenhouse plants.
  - **Prize Winner** at DeltaHacks VI, McMaster University for building a blockchain merchant application.
  - **Project mentor** for Sustainable Computing Research Group in **Google Summer of Code**.
  - **World Finalist** for **Microsoft Imagine Cup** at Microsoft HQ, WA for building an Azure integrated mobile 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 organization.
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## EDUCATION

**Bachelor of Computer Science (3A)** Sep 2019 - Present  
**University of Waterloo**

- \$15K Computer Science Scholarship; Dean's Honour List; Presidential Scholarship of Distinction.
- **URA Core Developer** at Google DSC 2020; **Mentor** at StarterHacks 2020.
- Courses: Mini compilers/Sequential Programs, Data Abstraction, Data Structures, Algorithms, UI, and OOP