

# PADAM CHOPRA

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## SKILLS

**Languages** Java, C++/C, TypeScript, JS, Python, Kotlin, Bash, Scala, Dart, Scheme, Go, Web, and SQL  
**Tools** Git, Android, Retrofit, Dagger, Vue, Flutter, AWS, Node.js, Mongo, Tensorflow, Keras, and Firebase

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## EXPERIENCE

**Android SWE Intern, Ritual Technologies Inc.** Sep 2021 (Incoming)

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

- Set up a **microservice** in Java to allow company products to leverage **natural language understanding**.
- **Improved named entity recognition** for non-english person names and custom client entities in queries.

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

- Improved **TalkBack**, **Switch Access**, and **VoiceOver** support by spearheading shift to accessible design.
- **Increased load speed** by 20% and reduced **network load** by implementing **paginated suggestions** for text fields.
- Reduced steps required to launch a user's favorite widgets by 60% by adding app shortcuts.
- Redesigned the **entire login experience** by supporting dark mode and widgets using material theming.

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

- Created API endpoints for server-interaction and re-architected cloud clusters to **ease scalability**.
- Reduced data fetching and processing time on a client by 30% by adding MongoDB aggregation pipelines.
- Implemented **reusable widgets** for the cross-platform mobile application.

**Mobile Developer, Bharosa and Company** Apr - May 2019

- Developed a **paperless invoice and client management** mechanism for Android using Firebase.
  - Accelerated invoice creation and distribution by 70% via automation and implementing it as a one-click mechanism for frequent clients.
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## PROJECTS

**Practikality** *[Android, Java, AWS, Google Cloud, Azure]*  
An android app to help the mute, deaf and visually impaired interact better.

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

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

**PostX** *[Android, Java, Firebase]*  
An android app to create easily shareable image posts from plain text.

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## ACHIEVEMENTS

- **Prize Winner** at DeltaHacks VI, McMaster University for building a blockchain android 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 closing 70+ Android, Python, and Angular tasks on GitHub for an open-source organization.
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## EDUCATION

**Bachelor of Computer Science (2B)** Sep 2019 - Present

**University of Waterloo | CGPA: 4.0**

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