PADAM CHOPRA

padamchopra.me | GitHub/padamchopra | LinkedIn/padamchopra | p5chopra@uwaterloo.ca

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

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.

PROJECTS

<u>**Taskout**</u>	*[Android, Kotlin, Jetpack, Dagger/Hilt, Room]*	
	An android app to create, manage and delegate tasks with categorization.	
<u>**Practikality**</u>	*[Android, Java, AWS, Google Cloud, Azure]*	
	An android app to help the mute, deaf, and visually impaired interact better.	
<u>**Habitus**</u>	*[Flutter and Dart, Firebase]*	
	A mobile app to help people track and build habits with a crowd-sourced habit library.	
<u>**TIL**</u>	*[Vue.js, TypeScript, Node.js]*	
	A platform for developers to create utility out of recording and exploring code snippets.	

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.

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