

PADAM CHOPRA

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SKILLS

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

EXPERIENCE

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

NLP Developer Intern, Ceridian Dayforce Jan - Apr 2021

- Enabled multiple company products to leverage NLP capabilities by setting up a **microservice** in Java.
- Improved **Named Entity Recognition** for non-English names and client-specific entities in text queries.
- Automated builds and setup CI/CD pipelines for the microservice in the organization server.

Android Developer Intern, Ceridian Dayforce May - Sep 2020

- Made the app more accessible by leading an initiative to add 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 API endpoints for server interaction and re-architecting cloud clusters.
- 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

- Sped up service delivery by developing a **paperless invoice and client management** mechanism.

ACHIEVEMENTS

- **Research Assistant** at the University of Waterloo; focusing on using machine learning for 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 closing 70+ Android, Python, and Angular tasks on GitHub for an open-source organization.

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, SASS]*
A web app with pin-secured task sharing to primarily allow creating tasks for other contacts.

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 ML+Data** for Winter 2021; **Core Developer** at Google DSC 2020; **Mentor** at StarterHacks 2020.
- Courses: Mini compilers/Sequential Programs, Data Abstraction, Data Structures, Algorithms, UI, and OOP