

HARNOOR SINGH

Software Developer

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EXPERIENCE

NCR (National Cash Register)

Atlanta, GA

Software Engineer II

(July 2020 – Present)

- Worked on NCR Silver's POS Android app with over one million lines of code, 19 modules, and hundreds of thousands of users worldwide. Added multiple Bug Fixes and UI Refreshes for iOS and Android NCR POS app
- Acted as Atlanta Team software lead and scrum master for 11 developers and QA Engineers.
- Engineered new features for the app using Dagger2, RxJava, Kotlin Multiplatform and C++. (Cross platform libraries)
- Created multiple instrumentation and unit tests using Espresso, Mockito and Junit.
- Served as an interviewer for NCR and participated in recruiting at college Engineering fairs.

PANASONIC AUTOMOTIVE

Peachtree City, GA

Systems Engineering Intern

(May 2017 – May 2018)

- Developed an Android app for Car's Entertainment system that simulates Panasonic's entertainment system helping developers learn the use-cases 2x faster
- Made an Android app to sync vehicle and user specific data from one car to another using REST APIs from scratch.
- Built automatic tools for CAN database operations

GEORGIA STATE UNIVERSITY

Graduate Research Assistant

(August 2019 – May 2020)

- Spearheaded and constructed a cybercrime dashboard analyzing white-collar and blue-collar crimes from scratch using Chart.js and Python
- Scraped data from US Department of Justice and built a SQL Database with 1 Billion+ Entities and of size 250GB

PROJECTS

Microsoft Percept – Online ordering @NCRGlobalHack - Java, Python

(August 2020)

- Used Microsoft Percept and NCR Online order API to make a self-ordering driv-thru system in a team of 5. Top 12 finalist

Hermes – OCR for Gas Prices @HackGT - Java

(October 2020)

- Developed an Android app in 36 hours that finds the cheaper gas price from current location using OCR of every gas station's price board. Model Accuracy: 90.1%
- Best Overall Concept Mention @HackGT

BeaconNCR – Scan and Go ordering @NCRGlobalHack – Java, Beacons

(August 2020)

- Engineered a quick-checkout Android app that gives promotions automatically to the users depending on customer location in the store. For example, while buying milk in the app in the store, the app will give promotional discount for cereals if bought together.

CSMusic – Teach CS using Music @CollegiateHack – Kotlin

(January 2021)

- AR music creation app that introduces computing concepts of Computer Science to Elementary School Students devoid of interactivity.
- Designed to be accessible offline and students can learn concepts of for loop, if condition by the number of repetitions and the nodes in music creation.

PharmaPal – Medicine solution for elders @HackATL - Java, Python

(October 2020)

AWARDS (10+)

- **NCRGlobalHack : 2021:** Top 12 Finalist
- **HackGT: 2019:** Best Overall Concept Mention (PDI Challenge)
- **HackGSU: 2019:** 1st place Crypto Challenge
- **Outstanding Undergraduate Research: 2018:** Department of Computer Science
- **HackATL: 2018:** 2nd place Health and Wellness Category
- **HackGSU: 2017:** 1st place Anthem Grand Prize Winner

Skills

- **Languages:** Java, RxJava, Kotlin, Python, JavaScript, Swift
- **Technologies:** Android, Espresso, Mockito, OkHttp + Retrofit, IoT, Firebase (Authentication, Firestore, Storage, Cloud Messaging, Cloud Functions, ML Kit), Git, JIRA, TeamCity
- **Concepts:** Object-orientated programming, mobile development, MVC, MVVM, Agile, Scrum, QA

EDUCATION

GEORGIA STATE UNIVERSITY President's List, Honors College

Undergrad & MS in Computer Science: (2016 – 2020) – summa cum laude GPA: 4.0

