

ARAVIND NATCHIAPPAN

Computer Science Student

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Atlanta, Georgia

EXPERIENCE

Amazon

Software Development Engineer Intern

May 2022 – Aug 2022

Sunnyvale, California

- Implemented lazy loading during the fetch of Alexa Shopping List Savings categories and category based deals.
- Modified the DynamoDB and backend layers to implement a paginated request/response structure. Used React Native to modify the client application to dynamically make paginated requests.

NCR Corporation

Software Engineer Intern

May 2021 – Aug 2021

Atlanta, Georgia

- Spearheaded a project that aimed to merge two of NCR's digital banking acquisitions, Digital Insight (DI) and D3 Banking.
- Modified D3 Banking's UI to allow requests from DI's backend server to be made by creating a middleman facade layer using Spring Boot. Migrated key components like Accounts, Bill Pay, Transfers, and UI configurations.

MedSmarter

Web Developer Intern

Feb 2020 – Mar 2020

Suwanee, Georgia

- Facilitated in the migration of a consumer-facing website to a different payments handler.
- Worked on an online courseware distribution system for students to access coursework and materials remotely.

PROJECTS

Picture Perfect

<https://github.com/aravindnatch/pictureperfect>

- A React Native app that uses augmented reality and ML to tell you how to take the most optimal picture based on your surroundings and user inputted preferences.
- Parses GPS data, current lighting, sun position, object relativity, and other factors to determine not only the most optimal location for the user to stand but also the most optimal location for the photo taker to stand as well. After scanning the area, this is reflected by rendering an AR body on the app showing where both parties should stand.

Make My Meals

<https://github.com/aravindnatch/makemy meals>

- A mobile website that reimagines retail shopping with pathfinding and machine learning in the COVID-19 era. Works by leveraging a custom path-finding algorithm that parses store location data.
- Uses object recognition to determine a user's location in a store along with the item they are holding. A list of recipes are generated based on the scanned item. After choosing a recipe, the user is taken along the shortest available path between each of the items.

SKILLS

Typescript

Node.js

Python

Java

SQL

Bash

HTML/CSS

React

Express

Flask

Tensorflow

CI/CD

Docker

UNIX/Bash

Keras

EDUCATION

Georgia Institute of Technology

B.S. Computer Science

Aug 2021 – Dec 2023

- Relevant Coursework: Data Structures and Algorithms, Objects and Design, Computer Organization and Programming, Computer Graphics

University of Georgia

B.S. Computer Science

Aug 2020 – May 2021

- Relevant Coursework: Introduction to Computing and Programming, Software Development, Discrete Mathematics for Computer Science

EXTRACURRICULAR

Mobile Health

Aug 2020 – Current

- Backend App Developer
- Implemented a skeleton backend in Firebase that incorporates stored data models and push notifications.
- Designed UML models and app flows for an efficient project workflow allowing for consistency amongst team members.

Georgia Political Review

Aug 2020 – Current

- Frontend Web Developer
- Developed a custom WordPress template that completely redesigned the frontend to make it more visually appealing.