

ASHWIN NATHAN

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Software Engineering Intern

Junior at the University of Pennsylvania studying Computer Science with a minor in Data Science. Seeking an internship for Summer 2021. Prior internship experience in web and mobile development.

TECHNICAL SKILLS

Languages and Frameworks – Java, Android, Kotlin, React, Redux, Node, HTML/CSS, C

Tools and Technologies: Git, Firebase, JIRA, AWS

Selected Coursework: Object-Oriented Programming, Data Structures and Algorithms, Functional Programming, Theory of Automata, Discrete Math, Linear Algebra, Probability and Statistics, Statistical Inference

EDUCATION

University of Pennsylvania – Philadelphia, PA

Expected Graduation: May '22

Bachelor of Science in Engineering, **Computer Science**, Minor in **Data Science**

WORK EXPERIENCE

Fundrise, *Software Development Intern* – Washington, D.C.

July – December '20

- Feature creation for their newly launched Android app

Redfin, *Software Development Intern* – San Francisco, CA

May – August '19

- Learned Kotlin from scratch and developed the Recently Viewed feature on the Redfin Android app that is the second most viewed tab on the page
- Led the redesign of UI elements on the app and helped transition codebase from legacy Java to Kotlin
- Seamlessly integrated email marketing campaign with the app to show a view with all suggested homes when users click on the email from mobile

Project YX, *Software Development Intern* – Santa Cruz, CA

May – August '18

- Designed a review system from scratch for the Clarifai classification algorithm with Rails
- Added automatic background removal functionality with OpenCV JavaScript
- Created a monitoring dashboard in AWS CloudWatch to visualize and review Heroku logs

CIS 120 Teaching Assistant

Jan '19 – Current

- Selected out of 200 to lead weekly recitations for introductory Computer Science course
- Teach core OOP concepts (Java) and functional programming paradigms (OCaml)

PROJECTS, AWARDS, & INTERESTS

Projects:

Icon (Jan 2018)

- ♦ User can search for outfits from other users in the vicinity
- ♦ Using Keras library, developed a neural network to tag articles of clothing

TripGuru (March 2017)

- ♦ App creates a custom itinerary with approximate values for commute time and time spent at attraction
- ♦ Implemented the genetic algorithm to calculate most efficient route to take

PinPoint (Jan 2017)

- ♦ Developed Android app to find most efficient route to get groceries in a store
- ♦ Wrote TSP and A* algorithms to find the fastest path possible

ScanNShop (Nov 2016)

- ♦ Eliminate inefficient lines at grocery stores by automating checkout process
- ♦ Users scan product's barcode while shopping which is then added to cart

Awards: 2nd Place Project YX Sponsor Prize – CruzHacks 2018; Best iOS App – HSHacksIII 2017; Best Android App – San Mateo Hacks 2017; 1st Place Overall – GunnHacks 2016