

# ASHWIN NATHAN

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## Software Engineering Intern

Senior at the University of Pennsylvania studying Computer Science with a minor in Data Science. Seeking New Grad opportunities for Summer 2022. Prior internship experience in web and mobile development.

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## TECHNICAL SKILLS

**Languages and Frameworks** – Java, Kotlin, Python, React.js, HTML, CSS, Node.js, Haskell

**Tools and Technologies:** Git, Firebase, JIRA, AWS, GCP

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

## EDUCATION

**University of Pennsylvania** – Philadelphia, PA

Expected Graduation: May '22

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

## WORK EXPERIENCE

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

May – August '21

- Implemented a subscriber feature on Android that interacts with a Scala microservice to show a heatmap of user's activities using Mapbox SDK

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

August – December '20

- One of the first hires on Android team in charge of implementing web features from scratch and helping make architecture decisions

**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
- Redesigned UI elements on the app and helped transition codebase from 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:

*Search Engine - CIS 555* (Apr 2021)

- Created a distributed search engine that handled queries and retrieved relevant responses
- Implemented a distributed web crawler that stored page content in Amazon S3 and queued new linked pages with Amazon SQS. The link graph was then used to generate page ranks that determined relevancy.

*Coronavirus Tweet Sentiment – CIS 545* (Apr 2020)

- Used Kaggle dataset of Coronavirus tweets to associate policy response with public reaction
- Performed exploratory data analysis, processed tweets with NLTK and created a logistic regression model to test

*Literature Card Game* (May 2020)

- Created a card game called 'Literature' from scratch with friends ([literaturegame.com](http://literaturegame.com))
- Primarily worked on the frontend, using React and Ant design components