

# PRATIK KARKI

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## »»» Education

Expected – May 2020

**Grinnell College – B.A. in Computer Science & Statistics**

- » **Computer Science GPA** 3.7 | **Cumulative GPA** 3.5
- » **Honors** Grinnell College Dean's List (Fall 2016, Spring 2019) · Noyce/Intel Grant Recipient

Expected – May 2021

**University of Iowa – Masters of Computer Science (MCS)**

- » Combined Undergraduate to Graduate program with Grinnell College · Software Engineering Subprogram

## »»» Relevant Coursework & Technical Skills

- » **Technologies** Java · C · Ruby on Rails ·  $\text{\LaTeX}$  · React · Git · Python · Android Studio · MySQL · Kotlin · Scheme
- » **Courses** Software Development · Mobile Software · Object Oriented Design · Data Structures & Algorithms · Theory of Computing · Design/Analysis of Experiments · Functional Programming · UX Design

## »»» Work Experience

May 2019 – Aug. 2019

**CareDash – Software Engineering Intern**

Cambridge, MA

*CareDash is a transparent healthcare provider reviews site with over 200k reviews and a million weekly users.*

- » Oversaw new features, implemented SEO updates, and reduced front-end compile times:
  - Developed comprehensive testing infrastructure (unit tests, integration tests, and acceptance tests).
  - Identified multiple crucial logic flaws and resolved them with senior SWE team members.
  - Researched system design patterns and refactored codebase to avoid multiple compiling bottlenecks.
- » Implemented bulk processing mechanism to help hospital managers sign up numerous practitioners with ease.
- » Developed multiple prototypes of new UX components and incorporated feedback from weekly demos.

Jan. 2017 – Present

**Grinnell AppDev – Senior Android Developer**

Grinnell, IA

*AppDev is a team of developers who maintain 7 mobile apps with over 1,000 daily community users · \$150k in funding.*

- » Spearheaded initiative to create an **Events** app for the college and led a team of 5 android developers.
- » Designed, developed, and maintained 5 Android applications with over 1,000 daily users.
- » Taught weekly classes in intermediate level Android Development to 20+ student developers.

Jan. 2019 – Present

**Grinnell College – CS Teaching Assistant**

Grinnell, IA

- » Worked hand-in-hand with the instructor to go over course-level planning, class logistics and student progress.
- » Led weekly review sessions for 30+ students to discuss data structures, algorithms and object-oriented design.

## »»» Projects (on Github)

Jan. 2019 – Jun. 2019

**Ansemic Writing with Tensorflow**

*Projects completed during Creative Applications of Deep Learning with TensorFlow course @ Kadenze*

- » Trained a deep learning model using Tensorflow to create generative ansemic handwriting.
- » Employed CelebFaces dataset to train a model which constructs unique human faces.

Jan. 2018 – May 2018

**Local Foods Connection**

*Technologies used – Ruby on Rails · Javascript · Active Record Query Interface · HTML+CSS*

- » Engineered a web application to help 4,000+ residents of Grinnell, Iowa find sustainable food options.
- » Created a search function to find recipes and an admin login function using MVC Architecture in Rails framework.
- » Acted as a liaison between project team and client to translate client needs into achievable goals.

Aug. 2018 – Dec. 2018

**Mobile Applications**

- » **Feed Me** Personalized recipe app utilizing an external API – *Best team project at AIT-Budapest (Fall 2018).*
- » **Mine Sweeper** Android game with multiple difficulty levels and graphics utilizing the observer design pattern.
- » **AndWallet** Income and expenditure tracking Android application with persistent storage feature via *Room*.