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 · LaTeX · React · Git · Python · Android Studio · MySQL · Kotlin · Scheme
❯ **Courses**   Software Development · Mobile Software · Formal Methods · Data Structures & Algorithms
Statistical Modeling · Design/Analysis of Experiments · Functional Programming · UX Design

⫸ Work Experience

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.
❯ Incorporated dependency injection and unit testing with Dagger and Mojito respectively.
❯ Taught weekly classes in intermediate level Android Development to 20+ student developers.

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. 2018 – May 2018	**Local Foods Connection** – Software Engineering Intern	Grinnell, IA

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.

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.

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*.