

# PRATIK KARKI | Résumé

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## »»» Education

May 2020      **B.A. in Computer Science & Statistics**      **Grinnell College, Grinnell, IA**

- » Fall Semester 2016 – Grinnell College Dean's List
- » Selected Coursework – Team Software Development (Ruby on rails), Object Oriented Design/Algorithms (Java), Imperative Problem Solving (C), Theory of Computing, Mobile Software Development, User Interface Design

## »»» Skills

- » Programming Proficiency – Java · C · Ruby on Rails · Scheme · Ruby · Kotlin · Python · Android Studio & NDK
- » Other Computing – Git · Unix/Linux · C++ ·  $\text{\LaTeX}$  · Adobe Creative Suite · Javascript · SQL · HTML + CSS
- » Technologies/Frameworks – Agile Software Development · MVC Model · REST · Node.js · Visual Studio

## »»» Programming and Technical Experience

2018/01–07      **Lead Programmer and Product Manager**      **Local Foods Connection, Grinnell, IA**

- » 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.
- » Systematically documented the codebase and successfully deployed the website on Heroku.

2017–2018      **Android Developer and UX Designer**      **Grinnell AppDev, Grinnell, IA**

- » Designed, developed, and maintained 5 Android applications with over 1,000 daily users using Android Studio.
- » Enhanced user satisfaction and loyalty by improving the user interface for the apps created.
- » Collaborated on a Publication app for the Grinnell College Newspaper with over 200 active readers.

2018/05–07      **Information Technology and Local Sightings Intern**      **Northwest Film Forum, Seattle, WA**

- » Redeveloped the organization's website with an improved user interface using HTML/CSS/Javascript.
- » Systematized a database system using Tableau to assess the demographics of the 5,000+ yearly customers.
- » Promoted the annual film festival, corresponded with potential sponsors and edited promotional videos.

2017/06–08      **Software Engineering Intern**      **Creasion Nepal, Kathmandu, Nepal**

- » Supervised a team of 4 students and worked on an Android Application with news and blog sections.
- » Retooled the website interface to with an admin login page using Javascript.
- » Implemented blog and video options on the website and ensured a user base of over 100 daily users.

## »»» Projects (Available on Github)

### Mobile Applications

- » Minesweeper: Android application that implements the popular game *Minesweeper* with difficulty options.
- » Attention Seeker: Cross platform iOS/Android application built using Visual Studio that implements a feature depicted in the popular Netflix series *Black Mirror*.
- » AndWallet: Income and expenditure tracking Android application with persistent storage feature using Room.

### Object Oriented Programming & Data Structures

- » Grin-compression: File compression using *Huffman trees* for a lossless compression algorithm.
- » Sounds of Sorting: A sorting program which visualizes six sorting algorithms with piano notes as indicators.
- » Learning-genie: A guessing game program that iteratively builds a database and guesses the correct answer.
- » Alife Simulation: Visualizes the cooperation between bacteria by emulating real-life preconditions.

## »»» Leadership

- » Grinnell College Model United Nations (Captain) – Trained 40+ students, led quarterly trips to national conferences, and allocated the \$15,000+ annual budget.
- » South Asian Student Organization (Cabinet Member) – Hosted weekly tea-time discussions, organized festival performances and celebrations, and organized a fundraiser of \$1,000+ for flood victims.