

PRATIK KARKI | Résumé

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»»» Education

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

- » Cumulative GPA: 3.5 – Grinnell College Dean's List, AIT-Budapest Recognition of Excellence
- » 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++ · \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**

- » 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.

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

- » Feed Me: Personalized recipe app utilizing an external API (Selected for best team project at AIT-Budapest).
- » Attention Seeker: Application built using React Native that implements a feature depicted in *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.
- » Blockchain: A program that securely stores, verifies and logs transactions and stores them as a blockchain.
- » 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

- » Ethical Coding Club (Founder & President) – Organized weekly discussions on ethical issues surrounding the application and development of technology in the field of Computer Science
- » Grinnell College Model United Nations (Vice-President) – Trained 40+ students, led quarterly trips to national conferences, and allocated the \$15,000+ annual budget.