

Pratik Karki

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EDUCATION

M.Sc. in Computer Science **University of Iowa** Iowa City, IA Aug. 2020 – May 2021

B.A. in Computer Science **Grinnell College** Grinnell, IA Aug. 2016 – May 2020

- Teaching Assistant - CS Department (CS-207, CS-301, CS-324)
 - Mentored over 30 students with individualized Rails projects and 5 projects with community partners
- Courses:** Algorithms, Web Mining, Software Development, Mobile Software, Database Systems, Parallel Computing, Distributed Systems, Formal Methods, Statistical Modeling, Design of Experiments

EXPERIENCE

Software Engineering Intern **Source Allies (Rescinded: COVID-19)** Des Moines, IA Summer 2020

Research Assistant **Grinnell College CS Department** Grinnell, IA Jan. 2020 – May 2020

- Developed a Recommender System for E-Commerce Products using **Amazon Datasets**
- Consolidated Association Rule Learning with **Apriori**, K-means Clustering with **Scikit-Learn**, and Embedded Neural Networks with **Keras** for a robust analysis on both the implicit and explicit data of the Amazon Products
- Utilized **Spark** for ALS Matrix Factorization and NLTK/VADER for **Sentiment Analysis** of Reviews and Metadata

Software Engineering Intern **CareDash** Cambridge, MA Summer 2019

- Resolved **Elasticsearch** `max_result_window` issue which reduced Crawler-induced 500 error pages by 15%
- Enhanced **JQuery** based front-end with **A/B Testing** and a filter for providers specializing in LGBTQ+ individuals
- Developed comprehensive testing infrastructure using **Mocha** and **Selenium** (unit, integration, acceptance tests)

Android Developer & Team Leader **Grinnell AppDev** Grinnell, IA Jan. 2017 – Dec. 2019

- Designed, developed, and maintained 5 Android applications for Grinnell College Community using **Android SDK**
- Led **Grinnell Events** team with regular Trello-based workflow and introduced unit testing with Mojito

PROJECTS MORE ON GITHUB!

YoutubeNLP (Summer of Shipping) Jun. 2020 – Present

- Youtube Analytics Dashboard to assess Micro and Macro trends
- Build a structured and dynamic back-end with **Flask**

Tattooder (Summer of Shipping) Jun. 2020 – Present

- React-Native app which matches customers with Tattoo Artists
- Design a robust, user-friendly mobile app using **Expo**

Nastya Chatbot (Code) Feb. 2020 – May 2020

- Chatbot that uses **Facebook Messenger** data hosted on **Heroku**
- Implemented TF-IDF algorithm using Elasticsearch and Bulk API
 - Hosted on Heroku with a **Bonsai add-on** using Flask back-end

Feed Me Aug. 2018 – Dec. 2018

- Personalized Android recipe app utilizing **Food2Fork API**
- Created an option to persistently save recipes in Favorites page
 - Selected as Best Team Project at AIT Budapest (Study Abroad)!

Local Foods Connection (Code) Jan. 2018 – May 2018

- Ruby on Rails app for finding **sustainable food options** in rural Iowa
- Engineered admin page to edit registered farms in the database
 - Serves over 4,000 users in the Grinnell College community

SKILLS & INTERESTS

Languages

Java, Python, Ruby, Javascript, CSS3, \LaTeX , C, Go, Kotlin, MySQL

Techologies

React-Native, JQuery, Node.js, Flask, Tensorflow, Spark, Rails, Elasticsearch

Interests

Guitar, Animal Fostering, Hiking, Spanish

RECOGNITION

- Dean's List 4x (Grinnell College)
- ACM Richard Tapia Celebration of Diversity in Computing Scholar (2019)
- Noyce/Intel Internship Grant (2018)
- CLS Conference Grant - DotGo Paris (2020)
- Global Learning Program** Fellow (2017)
Travel-Embedded Study of Immigration in the XXI Century in the USA, Mexico, Spain, Greece, and Germany