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# Pratik Karki

### pratikkarki.com | Github | PGP Public Key

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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)

### **EXPERIENCE**

Software Engineering Intern Source Allies (Rescinded: COVID-19)

Des Moines, IA

Summer 2020

Research Assistant Grinnell College CS Department

Grinnell. I

Jan. 2020 - May 2020

- Developed a Recommender System for E-Commerce Products using Amazon Datasets
- Consolidated Association Rule Learning with **Apiori**, 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

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**

Jan. 2018 - May 2018

Ruby on Rails app for finding sustainable food options in rural lowa

- 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