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 | 3.5/4.0 Grinnell College

Grinnell, IA

Aug. 2016 - May 2020

- Teaching Assistant Grinnell 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, Computer Architecture, Formal Methods, Statistical Modeling, Distributed Systems

EXPERIENCE

Software Developer Extern (Project Link) VandyHacks/Water Walkers

Remote

July 2020 - Present

- Operated as Full-Stack lead to develop and deploy a Flask, SQLite, Jinja based web app for a non-profit partner
- Engineered features such as user-login authentication, event updating, and attendance tracking using client input

Software Engineering Intern Source Allies (Rescinded: COVID-19)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 201

- 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

lan 2017 - Dec 2019

- Designed, developed, and maintained 5 Android applications for Grinnell College Community using Android SDK
- Led a team of four to develop Grinnell Events with regular Trello-based workflow and Mojito based unit-testing

PROJECTS MORE ON GITHUB!

YoutubeNLP (Summer of Shipping)

Jun. 2020 - Present

Youtube Analytics Dashboard to assess Micro and Macro trends

Build a dynamic and Docker-ized back-end using Flask

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 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, Docker, Tensorflow, Flask, JQuery, Node, 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 Conf. Grant DotGo Paris (2020)
- Global Learning Program Fellow (2017)