Pratik Karki

pratikkarki.com | Github | PGP Public Key   **karkip@gmail.com**

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 - Grinnell (CS-207, CS-301, CS-324), University of Iowa (CS-1020, CS-3820)
    - Mentored over 30 students with individualized Rails projects and 5 projects with community partners
- **Coursework:** Algorithms, Software Development, Computer Architecture, H.P.C., Databases, Web Mining, Machine Learning, Computer Security and Privacy, Virtual Reality (Research)

EXPERIENCE

Incoming Cloud Technical Resident **Google LLC**   Atlanta, GA   *Starting Aug. 2021*

Software Developer Extern **Major League Hacking**   Remote   *Jul. 2020 - Oct. 2020*

- 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

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   *May 2019 – Aug. 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 a team of four to develop **Grinnell Events** with regular Trello-based workflow and Mojito based unit-testing

PROJECTS *MORE ON **GITHUB**!*

YoutubeNLP (Code)   *Jun. 2020 – Dec. 2020*

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 Iowa
- Engineered admin page to edit registered farms in the database
- Serves 4000+ monthly 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, 2020)
- Noyce/Intel Internship Grant (2018)
- CLS Conf. Grant - DotGo Paris (2020)
- **Global Learning Program** Fellow (2017)