Pratik Karki

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>>> Education

Expected - May 2020 Grinnell College - B.A. in Computer Science & Statistics

▶ Honors Grinnell College Dean's List (Fall 2016, Spring 2019) · Noyce/Intel Grant Recipient

Expected - May 2021 University of Iowa - Masters of Computer Science (MCS)

Relevant Coursework & Technical Skills

- **▶ Programming** Java · C · Python · LAT_FX · React · Git · Ruby · Javascript · MySQL · R · Stata · Kotlin · Scheme · Go
- **▶ Technologies** Tensorflow · Keras · PyTorch · Rails · SciKit-Learn · ElasticSearch · XCode · Bash · Node.js · AWS
- **> Selected Courses** Software Development · Data Structures & Algorithms · Web Mining · Computer Architecture

Work Experience

May 2019 - Aug. 2019 Care Dash - Software Engineering Intern

Cambridge, MA

Technologies used – Ruby on Rails · Javascript · HTML+CSS · ElasticSearch · AWS · A/B Testing · Mocha · Sentry

- Developed comprehensive testing infrastructure using Mocha (unit, integration, and acceptance tests).
- Identified multiple crucial logic flaws and resolved them with senior SWE team members.
- Researched system design patterns and refactored codebase to avoid multiple compiling bottlenecks.
- ▶ Iteratively engineered multiple prototypes of UX components and incorporated feedback from weekly demos.

Jan. 2017 - Dec. 2019

Grinnell AppDev - Senior Android Developer

Grinnell, IA

AppDev is a team of developers who maintain 7 mobile apps with over 1,000 daily community users · \$150k in funding.

- ▶ Spearheaded initiative to create an **Events** app for the college and led a team of 5 android developers.
- Incorporated dependency injection and unit testing with Dagger and Mojito respectively.
- ▶ Taught weekly classes in intermediate level Android Development to 20+ student developers.

Jan. 2018 – May 2018

Local Foods Connection - Software Engineer

Grinnell, IA

Technologies used - Ruby on Rails · Javascript · Active Record Query Interface · HTML+CSS

- ▶ Engineered a web application to help 4,000+ residents of Grinnell, lowa 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.

Grinnell College - CS Teaching Assistant

Grinnell, IA

Worked hand-in-hand with the instructor to go over course-level planning and hosted weekly review sessions.

- ▶ Team Software Development & Design (CSC-324) Jan. 2020 Present
- Analysis of Algorithms (CSC-301) Aug. 2019 Dec. 2019
- Object Oriented Programming & Algorithms (CSC-207) Jan. 2019 May. 2019

Research

Jan. 2020 – Present

Top-N E-Commerce Recommender System

- Develop a hybrid recommendation system to best predict e-commerce products for Amazon users.
- ▶ Utilize PySpark for ALS Matrix Factorization and NLTK for Sentiment Analysis of Product Reviews and Metadata.
- Integrate implicit/explicit data and employ top-k ranking metrics for a model that avoids the long-tail problem.

>>> Projects (on Github)

- **Ansemic Writing w Tensorflow** Trained a deep learning model to create generative Ansemic writing.
- ▶ Feed Me Personalized recipe app utilizing an external API Best team project at AIT-Budapest (Fall 2018).
- ▶ GrinCompression File compression program using Huffman trees for a lossless compression algorithm.
- ▶ Mine Sweeper Android game with multiple difficulty levels and graphics utilizing the observer design pattern.