

# PRESTON RAKOVSKY

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## EDUCATION

Northeastern University, Boston, MA

Sept 2018 – Present

Khoury College of Computer Sciences

Bachelor of Science in Computer Science & Business Administration (Finance)

Expected Apr 2023

Relevant Courses: Algorithms and Data Structures, Database Management Systems, Data Science I, Computer Systems

GPA: 3.6/4.0 | Dean's List

## COMPUTER KNOWLEDGE

**Languages:** Python, Go, SQL, Java, JavaScript, ReactJS, PHP, HTML/CSS

**Tools/Libraries:** RESTful API, gRPC, Protocol Buffers, Git, Postman, Pandas, Spark, GCP Cloud Functions

## EXPERIENCE

- May – Dec 2021 **Datadog, Software Engineer Intern** New York, NY
- Migrated out a new gRPC service to resolve key-value requests using Go and Protocol Buffers
  - Built cron service to run SQL queries and report on latencies and throughput in Go
  - **Leveraged knowledge** in backend storage development, Go, gRPC, Protobuf, Redis, Postgres & Cassandra
- Aug – Dec 2020 **Poloniex, Software Engineer Intern** Boston, MA
- Decreased CPU utilization by 28% by refactoring PHP code to utilize in-memory cache to store SQL result-set
  - Integrated pre-existing software to communicate with new micro-services based in Docker
  - Rigorously tested web socket functions for code coverage with unit tests in Go
  - **Leveraged knowledge** in backend development, Go, Docker, database systems (PostgreSQL) & Git
- Jun – Aug 2020 **Dell Technologies, Software Engineer Intern** Hopkinton, MA
- Utilized REST APIs and *Python* to integrate vulnerability management system with internal ticketing system, increasing FY 2021 internal ticket volume by 843%
  - Built Python-based ETL data pipeline to extract data on batch-basis, utilizing Pandas and Numpy
  - Communicated programming logic of projects to stakeholders with workflow diagrams
- Apr – Aug 2020 **Facebook, Data Challenge Finalist** New York, NY
- Engaged in SQL workshops and mock interviews with Facebook Data Engineers and Data Scientists
  - Selected as 1 of 80 from a pool of 600 eligible applicants for this 4 month program
- May – Aug 2019 **ING Financials LLC, IT Development Solutions Intern** New York, NY
- Spearheaded development of interactive internal SQL Mapping tool in Java
  - **Leveraged knowledge** in SQL & Java

## PROJECTS

- Chicken Tinder, Personal Project** (React Native, Google Cloud Platform, Python) Aug 2020
- Card swiping React Native app that employed a Python script on GCP's Cloud Functions that called a Yelp's *REST API* to generate 50 nearest restaurants to your given location and rendered them in a card-deck format
  - Raised \$5,000 in funding through grant from Jelly Incubation Fund
- Analytics Pipeline and Dashboard, Personal Project** (Spark, EC2, S3, EMR, SQL, Tableau, Python) Oct 2020
- Automated ETL Spark pipeline for transforming and querying Google Analytics data into Tableau Dashboard

## ACTIVITIES

- Sep – Nov 2020 **Facebook, Above and Beyond Computer Science Participant** Boston, MA
- Attended weekly development workshops geared towards enhancing programming fundamentals
- Sep – Nov 2019 **NU SPLASH, Introduction Computer Science Co-Teacher** Boston, MA
- Developed and co-led very basic fundamentals of computer science curriculum for high school students
- Oct – Dec 2018 **Sustainable Business Network, Business Interviewer** Boston, MA
- Conducted interviews with CEOs of businesses in the Greater Boston Area about their business practices