

# 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 Administrator (Finance)

Relevant Courses: Database Management Systems (WIP) , Algorithms and Data, Data Science I, Computer Systems

GPA: 3.6/4.0 | Dean's List

## COMPUTER KNOWLEDGE

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

Tools/Libraries: RESTful API, Postman, Spark, Pandas, Git, Google Cloud Platform Cloud Functions

## EXPERIENCE

- Aug – Dec 2020 **Poloniex, Software Engineer Co-op** Boston, MA
- Decreased CPU utilization by 28% by refactoring *PHP* code to utilize in-memory cache to store *SQL* result-set
  - Analyzed database performance under load to ensure no negative impact to performance
  - 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
- 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
  - Visualized vulnerability data in statistical graph format using *Plotly*
- Apr – Aug 2020 **Facebook, Data Challenge Finalist** New York, NY
- Engaged in *SQL* workshops and mock interviews with Facebook Data Engineers and Data Scientists
  - Generated ideas for columns for a historical NYC public park event dataset
  - 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 *SQL* Mapping tool in *Java*
  - Engineered automation projects for internal departments using Robotic Process Automation
  - Facilitated advancement of existing reporting tool for Regulatory Taxes using Apache Tomcat and *JSP*

## PROJECTS

- Chicken Tinder** (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
- Analytics Pipeline and Dashboard** (Spark, EC2, S3, EMR, SQL, Tableau, Python) Oct 2020 - Present  
Automated ETL Spark pipeline for transferring 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