

# Anirudh Kamath

SCIENTIFIC COMPUTING AND DAD JOKE ENTHUSIAST

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## Education

### Northeastern University

Boston, MA

B.S. MATHEMATICS AND DATA SCIENCE, MINOR IN BUSINESS ADMINISTRATION (MAJOR GPA: 3.96)

**GRADUATE COURSEWORK:** MACHINE LEARNING AND STATISTICAL LEARNING THEORY, NUMERICAL ANALYSIS I (LIN&ALG),

NUMERICAL ANALYSIS 2 (PDES), COMPUTER SYSTEMS, APPLIED LINEAR ALGEBRA AND MATRIX ANALYSIS, GRAPH THEORY

Sep 2017 - Dec 2021

**SELECTED UNDERGRADUATE COURSEWORK:** COMPUTER GRAPHICS, LARGE-SCALE INFORMATION STORAGE AND RETRIEVAL,

ALGORITHMS AND DATA, OBJECT-ORIENTED DESIGN, PROBABILITY/STATISTICS, CALCULUS 1-3

## Experience

### Neo4J

San Mateo, CA (Remote)

SOFTWARE ENGINEERING INTERN, SOLUTIONS AND PROFESSIONAL SERVICES

Jan 2021 - May 2021

**LANGUAGES/TECH:** Neo4J/Cypher, React, GraphQL, AWS, GCP, GraphQL, D3.js, Python

- Directly interface with clients and stakeholders and develop/deploy graph technology-enabled solutions that best suit their needs.

### Apple, Inc.

Cupertino, CA (Remote)

SOFTWARE ENGINEERING INTERN, HEALTH AND WELLNESS

Jun 2020 - Aug 2020

**LANGUAGES/TECH:** Python, PySpark/Spark SQL, Metaflow, Golang, AWS Glue, AWS Lambda, AWS Athena, Terraform

- Built technologies to support Apple and Apple-associated hospitals to address broad health-related initiatives.
- Worked on ETLs and large-scale data migrations using serverless technologies on AWS to support data science teams in a scalable manner.

### Boston Consulting Group (BCG)

Boston, MA

NORTH AMERICA MARKETING CO-OP

Jul 2019 - Dec 2019

**LANGUAGES/TECH:** Python, SQL, Tableau, Pandas, Scikit-Learn, MS Office, Selenium, Salesforce

- Engaged with fashion client on case team consulting underserved communities in Boston.
- Topic modeled BCG.com articles to recommend articles to users based on article-article relevance and user affinity for a given topic using LDA modelling on article metadata.
- Setup Selenium scripts in Python to automate repetitive data entry into the BCG.com content management system (CMS).
- Automated syncing various information from various sources (BoardEx, LinkedIn, Bloomberg, Crunchbase, Owler, etc.) with company CRM.

### Rock Ventures

Detroit, MI

SPECIAL PROJECTS INTERN

Aug 2018 - Jun 2019

**LANGUAGES/TECH:** Python, SQL, JavaScript, PyTorch, Tensorflow, Keras (Tensorflow), AWS SageMaker, Flask

- Extended StockX internship with the parent company, Rock Ventures, and worked on projects with StockX and Dictionary.com
- Utilized latent vectors (hidden features not explicitly describable to a computer) from disentangled variational autoencoder (β-VAE) in PyTorch to decompose sneaker/streetwear trends and correlate these features to willing-to-pay price points.
- Trained Mask R-CNN (segmented and labeled regions of images) model in Tensorflow for detection/segmentation of various fashion items

### StockX

Detroit, MI

DATA SCIENCE INTERN

May 2018 - Jul 2018

**LANGUAGES/TECH:** Python, SQL, Tableau, Google Analytics, AWS Lambda, AWS SageMaker, Keras (Tensorflow), Pandas

- Developed prototype convolutional autoencoder (data compression to highlight hidden representations in unstructured data) in Keras for image-based similar item recommendations.
- Researched ideal fulfillment locations for shipping optimization based on buyer/seller traffic and potential growth in the area.
- Optimized buyer-authentication-seller shipment path via shortest path optimization on weighted graph considering shipping time/cost.
- Automated reporting daily sales and website metrics across variety of sources into one company email to employees.
- Structured KPIs and data from various sources for input into Customer Acquisition Cost (CAC) model to determine social media ROI.

## Honors & Awards

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|------|--|---------------|
| 2019 | <b>Finalist and Inaugural Data Award Recipient</b> , Northeastern RISE Research Fair | Boston, MA    |
| 2018 | <b>Finalist</b> , Northeastern RISE Research Fair                                    | Boston, MA    |
| 2017 | <b>National Finalist and 1st in State</b> , Technology Students Association          | Orlando, FL   |
| 2017 | <b>Winner</b> , Intel Excellence in Computer Science                                 | Raleigh, NC   |
| 2017 | <b>Silver Medal Recipient for Research</b> , US Army (via Intel ISEF)                | Raleigh, NC   |
| 2017 | <b>3rd Place Statewide Technology Research</b> , Intel ISEF, North Carolina          | Raleigh, NC   |
| 2017 | <b>Eagle Scout</b> , Boy Scouts of America   | Charlotte, NC |