

# Darshan Patel

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## EDUCATION

### GEORGIA INSTITUTE OF TECHNOLOGY

MS IN COMPUTER SCIENCE  
(MACHINE LEARNING)

Grad. May 2023

College of Computing (OMSCS)

### PENN STATE UNIVERSITY

BS IN COMPUTER ENGINEERING

Grad. Dec 2017 | Univ. Park, PA

College of Engineering

Cum Laude | Dean's List (All Semesters)

Cum. GPA: 3.84 / 4.0

## LINKS

Website:// [darshanpatel.io](http://darshanpatel.io)

Github:// [darshann25](https://github.com/darshann25)

LinkedIn:// [darshannpatel](https://www.linkedin.com/in/darshannpatel)

## COURSEWORK

Reinforcement Learning  
Machine Learning for Trading  
Data and Visual Analytics  
Software Development Process  
Deep Learning  
Artificial Intelligence  
Data Structures and Algorithms

## SKILLS

### PROGRAMMING

Python • Spark • Java • C • SQL • Golang  
• NetworkX • JavaScript • NodeJS •  
HTML • Swift

### PACKAGES AND TOOLS

Spark • MLlib • Hadoop • Scikit Learn •  
Tableau • PowerBI • Alteryx • AWS EC2 •  
AWS EMR • GCP Kubernetes

## AWARDS

2015 - **Dr. Ayoub Mathematics Award**  
for Excellence in the field of Mathematics

2014 - **President's Freshman Award**

2013 - 2017 - **Dean's List**

2017 - Grad. with Honors (**Cum Laude**)

## SOCIETIES

2016 - **HackPSU**, **TedxPSU**

2015 - **Tau Beta Pi Honor Society**

2014 - Vice President, **Robotics Club**

## EXPERIENCE

### TIKTOK U.S. DATA SECURITY | SENIOR DATA SCIENTIST

December 2023 – Present (1 years 2 months) | Mountain View, CA

- Reduced **95% exposure (recall)** from a sophisticated hacker network that performed a surgical attack on high profile news and celebrity accounts.
- Designed, led and rapidly executed a critical **High Comprised Value Accounts** segmentation project with the objective of enhancing Account Security measures to improve coverage from **1% MAU to 5% MAU**. Segmentation results are live and used across **TikTok's all user engagement surfaces to enhance user security**.
- Enhancing ML-based **Account Takeover (ATO) protection** measures for TikTok's US customer base to reduce **political account and high value account ATO prevalence by 40%** during crucial 2024 election year.
- **Recognition: Two performance bonuses** due to large company-wide impact. **2024 TikTok Hackathon Winner** for an LLM project adopted in production.

### DATAVISOR | SENIOR DATA SCIENTIST

August 2020 – December 2023 (3 years 5 months) | Mountain View, CA

- Utilizing open source and **proprietary machine learning** techniques to solve financial fraud problems such as **payments fraud, application fraud** and **money laundering** with less than **1% false positive rate** and over **70% recall**.
- **Deploying production models**, designing and implementing **story-telling dashboards** to monitor fraud program performance, and accelerating development of **governance documentation** by 30%.
- Supporting **go-to-market initiatives** by improving deal conversion by **50%** resulting in closing over **\$1.2million** in new business.

### PWC | DATA SCIENTIST (FRAUD DETECTION) - SENIOR ASSOCIATE

February 2018 – August 2020 (2 years 7 months) | New York, NY

- Driving cutting edge data analytics using **big data tools and machine learning** to build, monitor and enhance **fraud strategies at financial services clients**.
- Building strategic campaigns around **acquisition, marketing, lifecycle, fraud and operations optimization** for the customer base for financial services client using **analytics driven decision making**.

### SCRATCHWORK TOOL | SOFTWARE DEVELOPER - SENIOR DESIGN

August 2017 – December 2017 | Princeton, NJ (Remote)

- Worked on the iOS (Swift) application for the **Scratchwork handwriting tool**.

### PENN STATE UNIVERSITY | LEARNING ASSISTANT (CMPSC 465)

August 2017 – December 2017 | State College, PA

- Led weekly office hours for various **data structures and algorithms** topics.
- Created a student community for **competitive programming practice**.

### ORACLE | SOFTWARE ENGINEERING CO-OP

June 2016 – December 2016 | Conshohocken, PA

- Automated testing infrastructure using Integration and Selenium suites.

## RESEARCH

### PENN STATE - CSE DEPARTMENT | UNDERGRAD RESEARCHER

- **Robert Avanzato** | Open ROV Underwater Robot | August 2014 – May 2015
- **Dr. Matthew Fury** | Backward heat equation | August 2014 – May 2015