

# Peter Geras

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## PROFILE

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Motivated software engineer, with expertise in various areas of computer science such as data science, software development, and artificial intelligence. Posses a solid foundation in programming languages and problem-solving skills to contribute to the tech industry and take on challenging projects.

## EDUCATION

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**New York University**, Master of Science in Computer Science May 2022

*Relevant Coursework: Algorithms, Machine Learning, Artificial Intelligence, Programming Languages, Foundations of Computer Science, Computer Vision, Introduction to Java, Deep Learning*

**City College of New York**, Bachelors of Science in Mathematics, Bachelors of Arts in Political Science December 2015

*Relevant Coursework: Calculus I, II, III, Differential Equations, Linear Algebra, Probability Theory, Mathematical Statistics, Financial Mathematics I, II, Elements of Combinatorics*

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, C++

**Tools:** GIT, TensorFlow, PyTorch

## PROFESSIONAL EXPERIENCE

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**Founder, Dromo Tech** Feb. 2016 - Present

- Founded a tech startup focusing on improving road infrastructure in the United States
- Attached a camera and a LiDAR sensor to research vehicle for data collection
- Utilizing Deep Learning algorithms to automatically detect road defects such as potholes and cracks
- Current strategic and operation efforts are a rating system to each road to inform the local Department of Transportation what roads need to be fixed
- Performed administrative and operational duties including budgeting and authoring grant proposals

**Teacher's Assistant/Tutor, New York University** Apr. 2019 - Dec. 2019

- Supported undergraduate students in introductory level of Java and Python
- Provided instruction on basic concepts such as data types, control flow, and functions
- Offered code reviews and debugging to further instill programming concepts

## PROJECTS

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**Payroll (Java)** 2022

- Developed a GUI for a basic payroll system for employers/HR using Eclipse
- Used Database Browser for SQLite to store the data of the users and employees

**Camera and Cloud (Java, Android Studios, Google Firebase Storage, Google Firebase Database)** 2018

- Created an Android mobile app similar to Instagram where users can upload photos, "like" and comment to the platform
- Applied Google Firebase Storage and Google Firebase Database to store the photos, likes and comments are automatically

**NavControl: Stock and Product Tracker (Java, Android Studios)** 2018

- Created an Android mobile app that allows users to search for different companies and display the company's stock price on the homepage

**Google Maps Search (Java, Android Studios, Google Map API)** 2017

- Created an Android mobile app that allows users to search local area points of interest from the user's location
- Utilized Google Map to provide detailed information about the area the user is searching in

**Digital Lease: Parent and Child (Java, Android Studios, Google Cloud)** 2017

- Created two Android mobile apps, one for a parent and one for a child to track the child's location. A basic location app for a parent to see if their child is in range of a specific distance the parent inputs
- Used Google Cloud to store the location of the child and parent