

# Steven Granaturov

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## Education

### New York University - Tandon School of Engineering

Expected December 2025

*Master of Science in Computer Science*

- **Relevant Coursework:** Machine Learning, Data Science, Software Engineering, Information Visualization, Database Systems

### The City College of New York - Grove School of Engineering

*Bachelor of Science in Computer Science*

## Technical Skills

**Languages:** Python, Java, C++, JavaScript, R, Dart

**Technologies:** TensorFlow, SciKit-Learn, Chocolatey, Ansible, Matplotlib, Seaborn, Django, Flask, JavaFX, Bootstrap, ReactJS, D3.js

**Database:** MySQL, SQL, PostgreSQL, Microsoft SQL Server Management Studio

**Software:** MS Teams, MS Office 365, Slack, Visual Studio, PowerBI, Tableau, GitHub

## Experience

### The City University of New York (CUNY)

July 2023 – Present

*DevSecOps Engineer* | Python, MySQL, Git, Jenkins, Ansible, Linux

*New York, New York*

- **Automated Report Generation:** Streamlined the creation of student and faculty reports by integrating Oracle Identity Management with a local database, enhancing data accessibility and saving several hours of manual work
- **License Management:** Collaborated with a team of six to identify and deactivate licenses for inactive accounts, resulting in annual savings exceeding \$100,000
- **Cost Analysis:** Analyzed university agreements and partnerships which lead to identifying cost-effective subscription choices that reduced annual spending by over \$500,000
- **Custom Automation:** Developed and maintained Chocolatey packages and Python scripts to significantly improve workflow and software deployment efficiency for CUNY's internal servers

### NYC Department of Youth & Community Development

Jul 2016 – Aug 2019

*IT Modernization Lead* | Python, WordPress, MySQL

*Brooklyn, New York*

- **Modernization Project Leadership:** Led a comprehensive project to upgrade and update all computer systems within the facility, significantly enhancing operational efficiency.
- **Inventory Management:** Systematically itemized the entire inventory of hundreds of electronics into a local database (MySQL), utilizing Python scripts to execute queries and generate insightful and actionable reports.
- **Website Optimization:** Worked with a team of three to update and optimize the organization's website using WordPress and Bootstrap, improving user experience and functionality.

## Projects

**Stock Price Predictor** | Python, TensorFlow, Sci-kit Learn, yFinance, Matplotlib, Seaborn

- **Predictive Modeling:** Implemented a recurrent neural network and a multilayer perceptron to accurately project stock trends and closing prices with 95% confidence.
- **Decision Support:** Developed a decision tree model for buy/sell recommendations and used data visualization to highlight feature correlations.

**Capstone Project: PriceHub Android Application** | Flutter, Dart, Android Studio, Google Firebase, RapidAPI

- **App Development:** Collaborated with a team to create an Android app providing real-time product information from numerous stores.
- **Backend Integration:** Implemented backend technologies such as API calls to fetch product information and Google Firebase for user authentication and data storage.

**Spam Text Detection (Natural Language Processing)** | Python, TensorFlow, Sci-kit Learn, Matplotlib, Plotly, Natural Language Toolkit

- **Spam Detection Model:** Designed a recurrent neural network achieving 98% accuracy in detecting spam messages.
- **Data Preparation:** Preprocessed datasets with NLP techniques and created visualizations to identify key patterns.

## Professional Certificates

Oracle Cloud Infrastructure 2023 Certified Foundations Associate - Oracle, 2024

Google Data Analytics Professional Certificate - Google, 2024

## Achievements

- Professional Table Tennis player with a national ranking of top 86, and top 10 in New York State.
- Enjoy building custom PCs.