

# Kevin Ng

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## EDUCATION

### New York University

Brooklyn, NY

*Bachelor of Science in Computer Science, Minor in Math*

*Sept. 2020 – May 2024*

- Relevant Coursework: Software Engineering, Parallel Computing, Computer Networking, Algorithmic Machine Learning, Big Data Processing, Artificial Intelligence, Databases, Computer Architecture, Operating Systems

## EXPERIENCE

### Databases Teaching Assistant

Sept. 2023 – May 2024

*New York University*

*Brooklyn, NY*

- Held in-person lecture to 50+ students, covering end-to-end web app development using **Flask**, **MySQL**.
- Conducted weekly office hours, offering guidance in debugging and reinforcing RDBMS and **SQL** query design.
- Graded 30% of assignment, project, and exam submissions, ensuring timely delivery of constructive feedback.

### Data Engineer Intern

May 2023 – Aug. 2023

*PepsiCo*

*Purchase, NY*

- Drove data validation efforts with 6+ data engineers by designing pipeline validation scripts using **SQL** and **Azure**, successfully executing a lift-and-shift operation on a cloud-driven platform used by 20,000+ front-line workers.
- Spearheaded project to forecast beverage price elasticity overseeing \$26 billion in revenue, by feature engineering and linear model training with **PySpark**, **Scikit-learn**, and **Keras**, meeting business demands.
- Performed data profiling, analytics, code reviews in **Databricks**, **PySpark**, **SQL** and reported findings at weekly meetings with global revenue management team in an agile scrum environment.

### Software Engineer Intern

Aug. 2022 – Sept. 2022

*HABNET Chamber of Commerce*

*Brooklyn, NY*

- Launched cross-platform mobile app connecting 400+ NYU businesses on IOS and Google Play.
- Designed and developed components using **React Native**, integrated with **Firebase** database.
- Tested and enhanced user experience by designing mobile app views and stack navigation in **Expo**.

## PROJECTS

### Parking Recommendation System | *Scala, Java, Spark, Hadoop, Hive, NYU Dataproc* Sept. 2023 – Dec. 2023

- Engineered 4 ETL pipelines, to ingest, profile, and process NYC OpenData for neighborhood parking analysis.
- Analyzed processed data using Google API and statistical techniques, creating parking ranking by neighborhood.

### Toxic-Tweets | *Python, PyTorch, Pandas, NumPy, Scikit-learn, Hugging Face, Docker* Mar. 2023 – May 2023

- Deployed 3 natural language processing models on hugging face spaces to perform text sentiment analysis.
- Achieved 92% test accuracy by fine-tuning a multi-headed distilBERT model to classify toxic online comments.

### Netflix IMDB Score Predictor | *Python, Scikit-learn, NumPy, Pandas, Matplotlib* Mar. 2023 – Apr. 2023

- Researched performance of 3 machine learning models in predicting Netflix show IMDB scores in a team of 2.
- Reduced classification bias by 20% and achieved 92% RMSE via data balancing and model fine-tuning techniques.

### Air Ticket Reservation System | *Python, SQL, Flask, MySQL, Git* Nov. 2022 – Dec. 2022

- Developed a full-stack web app for ticket reservation system, with RESTful API, HTML templating, SQL.
- Tested and debugged 20+ customer and admin focused user acceptance testing cases, improving user experience.

## TECHNICAL SKILLS

**Languages:** Python, C/C++ (MPI, OpenMP), SQL, JavaScript, Java, Scala

**Web Development:** Flask, PyTest, React, Express.js, Mocha, React Native, MongoDB, MySQL

**Machine Learning:** PyTorch, Keras, Scikit-learn, Pandas, Hugging Face

**ETL:** Azure, Spark, PySpark, Hadoop, HBase, Hive, Kafka, Databricks, NYU HPC

**Developer Tools:** Git, Vim, Wireshark, Docker, Jira, Visual Studio Code

**Other:** Agile Development, Project Management, Test-Driven Development