

# Satvik Khetan

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## EDUCATION

**Northeastern University**, Boston, USA.

Jan 2022 - Apr 2024 (Expected)

**Master of Science, Computer Science**

GPA 3.93

Courses: Programming Design Paradigm, DBMS, Cloud Computing, Web Development.

**PES University**, India.

Aug 2013 - May 2017

**Bachelor of Engineering**

Courses: Data structures and Algorithms, Operating Systems, Networks, Computer Architecture.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, Golang, C#, C++, SQL, R, JavaScript, CSS, HTML.

**Technologies/Frameworks:** Django, .NET, Elastic Search, REST APIs, Spring Boot, Agile.

**Databases:** PostgreSQL, MongoDB, MySQL, Clickhouse.

**Tools:** Git, Docker, Kubernetes, Ansible, Terraform, AWS, Azure DevOps, Jira, Spark.

## WORK EXPERIENCE

**Software Engineering Intern (Golang, SQL)**

Jul 2023 - Sep 2023

**Wasabi Technologies**, Boston

- Reduce storage requirements by **95%** by implementing microservices to extract call detail records from a **Clickhouse** database, manipulate it, and store the useful parts in a **Postgres** database.
- Deployed these services in a **Kubernetes** cluster and created **Grafana** dashboards for monitoring of data stream.

**Video Analytics Intern (C++, Python, Linux)**

Jan 2023 - Jun 2023

**Motorola Solutions**, Boston

- Improved color-based searching in the video management software (VMS) by enhancing color detection accuracy by **60%** for person and vehicle objects in the video frames.
- **Tripled** the alert rate for crowd events such as stampedes in the algorithms and deployed them on cameras.

**Staff Software Engineer (Java, Python)**

Mar 2020 - Nov 2021

**National Instruments**, India

- Acted as a **Feature lead** in improving the **export/import** of **CSV** data in the product to debug it in real-time and reduce the load time for CSV data to **1/10<sup>th</sup>** of the original time.
- Improved customer usability with **Python** by adding support for invoking Python code directly from the product.
- Accelerated **team efficiency** by hosting daily stand-up as a **Scrum Master** following the **Agile** methodologies.

**Software Engineer (Java, C#, .NET)**

Jul 2017 - Feb 2020

**National Instruments**, India

- Decreased runtime errors by **65%** by developing a **static analysis tool**, in collaboration with an Austin-based team, allowing customers to detect potential errors and warnings during the development stage.
- Lowered hardware dependency with new **Offline Mode**, facilitating seamless simulation of necessary hardware.

## PROJECTS

**Automated Stock Analysis (Python, Heroku, Google API)**

Jan 2020 - Mar 2020

- Realized a **0.8%** average daily profit by **leveraging automation** to fetch and parse stock prices from websites.
- Deployed scripts on **Heroku** to enable continuous and accurate buy and sell predictions via Google Sheets.

**Sentiment Analysis of Tweets (Python, NLP)**

Jan 2017 - May 2017

- Built a system to analyze the sentiments of tweets and showcased these insights through a dashboard.
- Achieved a high accuracy of **92%** using a hybrid machine learning model based on **SVM** and **KNN**.