

SACHIN ADLAKHA

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Education

New York University

Sept 2024 - May 2026

MS in Computer Science

New York, USA

- Relevant Coursework: **Operating Systems - II**, **Design and Analysis of Algorithms - II**, Software Engineering

Guru Gobind Singh Indraprastha University

Sept 2020- July 2024

B.Tech in Computer Science and Engineering

India

- **GPA: 9.17/10**
- Relevant Coursework: **Artificial Intelligence**, **Machine Learning**, Database and Management Systems, **Object Oriented Programming**, **Applied Mathematics**, Web Development, **Advanced Computer Networks**, Compiler Design, **Operating Systems - I**, **Design and Analysis of Algorithms - I**

Projects

(Click on Title to open project)

MapQuester | *NYU Software Engineering Project* | Django, AWS, Typescript, ReactJS, PostgreSQL

Dec 2024

- Deployed CI/CD pipeline with **95% test coverage**, automated **10+** microservices, reduced deployment time by **70%**
- Scaled PostgreSQL database to handle **1K+ POIs**, optimized query response time from **2s to 200ms**
- Implemented **agile workflow**, led developers team size **6**, delivered **6 major releases with 0 critical bugs**

Web-Based Trading Platform | Flask, Bootstrap, Python, Interactive Brokers API

October 2024

- Processed **100+ API requests/sec**, achieved **sub-100ms latency**, integrated **20+** market data streams
- Built scanner filtering **1000+** stocks, reduced scan time **30%**, processing within **4 seconds**

Automated Oanda Trading Bot | Python, Docker, Backtrader, Flask, API, Jupyter, Oanda API

October 2024

- Automated **50+ trades/day**, reduced losses **20%**, integrated **5+ technical indicators**
- **Backtested 1 years historical data**, improved strategy performance by **20%**, achieved **75% prediction accuracy**

Other Projects

- **3D Field of View Web Portfolio** | Three.js, ReactJS, Blender (In progress) Nov 2024
- **3D Tic Tac Toe** | NextJS, Three.js, Tailwind CSS July 2024
- **Sign Language Detection & Action Recognition** | Computer Vision, Deep Learning, LSTM Jan 2024
- **Pothole Detection** | Python, YoloV2, RaspberryPI 4 June 2023

Experience

Growvisionary

June 2023 – Sept 2023

Technical Associate Intern

- Led the development of a fintech website using AI tools, re-engineering supplier negotiations to **reduce procurement costs by 20%**, driving **10,000+ views** while maintaining product quality.

Coding Blocks

July 2022 – September 2022

Web Development Intern

- Refined a portfolio website showcasing diverse projects; incorporated **SEO best practices** to improve search visibility, driving a **50% increase in site traffic** within three months.
- Executed comprehensive testing and debugging protocols across **10+ devices and platforms**, ensuring a seamless user experience that **enhanced application performance** and increased **user satisfaction ratings by 25%**.

Technical Skills

Programming: C++, Python, Java, HTML/CSS, JavaScript, SQL, R, MATLAB, Ruby, Typescript, C#

Developer Tools / Platforms: VS Code, Jupyter Notebook, GCP, Microsoft Azure, Git, Kubernetes, AWS, Linux

Financial Tools: Bloomberg Terminal, Oanda API, Alpha Vantage API, QuantLib, Interactive Brokers API

Technologies/Frameworks: Django, ReactJS, NodeJS, ThreeJS, TensorFlow, Scikit-Learn, Pandas, NumPy

Big Data & Databases: Hadoop, Apache Spark, MongoDB, MySQL

Achievements

- **Global Rank 856** in Google CodeJam Farewell
- **University Rank 1 (Bachelors)** in Mathematics