

# NIRMAL BOGHARA

+1(347)628-3769 | nb3964@nyu.edu | [Portfolio](#) | [LinkedIn](#) | [Github](#)

## EDUCATION

**New York University**, Tandon School of Engineering, Brooklyn, NY

**Expected: May 2026**

*Master of Science in Computer Science*

Relevant Coursework : Design and Analysis of Algorithms, Information Security and Privacy, Principles of Database Systems

**University of Mumbai**, Mumbai, India

Bachelor of Engineering in Computer Engineering, CGPA: 8.95/10

**Jun 2024**

Relevant Coursework: *Operating Systems, Machine Learning, Data Structures, Computer Networks, Applied Cryptography*

## TECHNICAL SKILLS

**Languages:** Java, Python, C#, HTML

**Front-end Development:** React.js, Svelte, JavaScript, TailwindCSS, d3.js, Three.js, WebGPU

**Back-end Development:** Node.js, PostgreSQL, MySQL, SQLite, MongoDB, Golang, PHP, Express.js, Django

**Machine Learning:** NumPy, Pandas, Tensorflow, Tensowflow.js, PyTorch, Matplotlib

**Miscellaneous:** Git, Github, AWS, Docker, Advanced Excel, Data Visualization, Data Mining, Data Modeling

## WORK EXPERIENCE

*Software Engineering Intern - Bitnine Global* | Santa Clara, CA

**Apr 2024 – Jun 2024**

- Collaborated with Bitnine's Apache AGE open-source community managers to align project goals, updating technical documentation for Apache AGE/AgensSQL using PostgreSQL. Authored and revised over 15 comprehensive technical documents, improving the accessibility and usability of the project's resources.
- Engineered key features such as optimized graph traversal algorithms, advanced indexing techniques, and improved query execution plans, leading to a 20% increase in query performance. Resolved 20+ critical bugs, enhancing the stability of the system.

*Artificial Intelligence Intern - Soulible Digital* | Mumbai, India

**Sep 2023 - Nov 2023**

- Programmed a system for attendance tracking based on face recognition, utilizing computer vision algorithms like YOLOv7, which reduced manual tracking by 15%.
- Orchestrated a comprehensive analysis of the face recognition attendance tracking system in partnership with cross-functional teams, implementing strategic optimizations that resulted in an astounding 30% boost in overall efficiency.

*Software Development Engineer Intern - Feat Systems* | Mumbai, India

**May 2023 - Aug 2023**

- Identified and swiftly resolved software defects and issues, implementing targeted optimizations that enhanced product functionality, resulting in a substantial 15% reduction in customer complaints.
- Maintained a comprehensive repository of software design documentation, coding procedures, and user guides, ensuring up-to-date and easily accessible resources; this strategic approach to knowledge management streamlined access to critical information, resulting in a notable 30% acceleration in new team member onboarding processes.

*Full Stack Developer Intern - Goldenmace IT Solutions* | Mumbai, India

**May 2022 - Jul 2022**

- Pioneered the development of a cutting-edge Business Dashboard harnessing the power of React.js and Angular.js, creating an innovative solution that propelled a significant 20% uptick in client satisfaction and adoption rates.
- Revolutionized server-side programming by harnessing Node.js's asynchronous capabilities and Python's data processing prowess; optimized code and implemented efficient caching mechanisms, catapulting dashboard performance by 30%, delivering a sleek and responsive user experience.

## ACADEMIC PROJECTS AND PUBLICATIONS

**FitFarm - Smart Agriculture System** [Machine Learning, Python, IoT, JavaScript]

**Jan 2024**

- Pioneered sophisticated supervised ML algorithms DT, SVM, RF, and NB, and an interactive dashboard using React.js and Node.js to predict the most suitable crops according to soil conditions with 93% accuracy and provide invaluable support to farmers.
- Published a [research paper](#) in the International Journal for Research in Applied Science & Engineering Technology (March 2024, Volume 12, Issue 3, ISSN: 2321-9653)

**Zinzraa - Top Seller on AJIO** [ExpressJS, React.js, Node.js, MongoDB]

**Aug 2023**

- Spearheaded a user-friendly interface for the shopping website, incorporating MERN Stack, leading to a 20% increase in user engagement and a 15% decrease in bounce rate.
- Deployed CRM and SEO tools to optimize web content and drive organic traffic, resulting in a 30% increase in conversion rates and boost in online sales revenue.

**Fittify** [Express.js, MongoDB, JavaScript]

**Dec 2022**

- Engineered a comprehensive health solution, piloting it with 150 students. Achieved 95% user satisfaction and 25% improvement in health metrics through personalized medical record tracking, diet plans, and workout routines.
- Successfully scaled to 500+ users while maintaining performance and intuitive UX made with Tailwind CSS.

## ACTIVITIES

- Technical Head, **IEEE**: Conducted DSA bootcamps and organized hackathons for 500+ students.
- AI/ML Group Meetup Organizer, **DevX**: Hosted meetups for AI/ML enthusiasts to discuss recent trends, and collaborate on projects.
- Placement Coordinator, **Atharva College of Engineering**: Organized placement drives for over 50 companies.
- Student Representative, **Atharva College of Engineering**: Elected consecutively for 4 years, assisting students and faculties.
- National Level Baseball Semi-finalists, MIT-WPU*, India