**Niteesh Panchal**  
Queens, New York 11375 • [npanchal1@stevens.edu](mailto:npanchal1@stevens.edu) • +1 929 774 7792 • [Portfolio Website](https://niteesh3110.github.io/Niteesh-Portfolio-Webiste/)

*Aspiring Software Engineer with a strong foundation in computer science and hands-on experience in full-stack development. Skilled in React, Next.js, Node.js, Express.js, and MongoDB, with a focus on building scalable backend systems. Successfully supported web programming courses by developing scripts for efficient grading and troubleshooting backend code issues. Eager to leverage technical expertise to contribute to backend engineering roles.*

Education

**Stevens Institute of Technology** Hoboken, New Jersey

Master of Science in Computer Science | GPA: 3.6 2024 - 2026   
  
**University of Mumbai** Mumbai, India

Bachelor of Science in Computer Science | GPA: 3.8 2022

Work Experience

**Stevens Institute of Technology** Hoboken, New Jersey  
Course Assistant for Full Stack Web Development Jan 2025 – *May 2025*

* Delivered weekly lectures and held office hours to support **170+** students in mastering full-stack development concepts using **JavaScript**, **React.js, Node.js**, **Express.js**, **RESTful APIs**, and **MongoDB**, while reinforcing best practices in debugging, modular coding, and asynchronous programming.
* Graded 11 labs and multiple full-stack projects for 100+ students, created final exam assessments, and collaborated with faculty to ensure fair and consistent evaluation.
* Built automated grading scripts and managed assignment logistics, saving 5+ hours/week and streamlining course operations for improved instructional efficiency.

Skills

**Languages: Python, JavaScript, TypeScript, C++, C#, Java, Swift**

**Web Development: React.js, Next.js, Vue.js, Angular, Redux, Bootstrap, Tailwind CSS, Zustand**

**Backend & APIs: Node.js, Express.js, FastAPI, Flask, REST APIs, GraphQL, Redis**

**Databases & Storage: MongoDB, PostgreSQL, MySQL, Amazon S3**

**DevOps & Cloud: Docker, Git, CI/CD, Kafka, AWS, GCP, Linux**

**Mobile: Android (Java/Kotlin), iOS (Swift)**

**Machine Learning & Data Science: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Data Mining**

**Automation & Scripting: Selenium, BeautifulSoup, Web Scraping, Automation Scripts**

**Tools & Methodologies: JIRA, Agile (Scrum, Kanban), SDLC, OpenAPI**

Projects

[**Liv-Echo**](https://github.com/Niteesh3110/liv-echo) *Stevens Institute of Technology, 2025*

Built a full-stack social app with post creation/editing, real-time chat, friend-only content, trending feeds, and OpenAI-based moderation. Integrated search with filters, group messaging, and push notifications. Tech stack: **Reac**t, **Zustand**, **Firebase**, **Socket.io, Express.js,** **MongoDB,** **Redis**, and **Elasticsearch**. Improved search/query speed by 40% using Redis caching and Elasticsearch indexing.

[**Student Planner**](https://github.com/Niteesh3110/student_planner)*Stevens Institute of Technology, 2024*  
Developed a full-stack web app that streamlines academic productivity (timetable scheduling, note summarization, file conversion, and interactive Q&A) using **Node.js**, **MongoDB**, **Handlebars**, client-side JavaScript, and **Axios**, with **Express** and **express-session** for routing and sessions.

[**Image Recognition**](https://github.com/Niteesh3110/Image_recognition)*Stevens Institute of Technology, 2024*

Developed a **Convolutional Neural Network** to accurately detect and count tomatoes in images, achieving over 90% accuracy.  
[**Interest Rates Prediction**](https://github.com/Niteesh3110/Interest_rates_prediction)*Stevens Institute of Technology, 2024*

Predicted interest rates for May 2025 using various advanced models, including **ARIMA**, **SARIMA**, **Random Forest**, **GRU**, **Feedforward Neural Networks**, and **Transformer Neural Networks**, ensuring model robustness and predictive accuracy through diverse methodologies.  
  
[**Flappy Bird AI**](https://github.com/Niteesh3110/flappy_bird)*Self-taught, 2022*

This project is a recreation of the classic Flappy Bird game, enhanced with **AI** that learns to play the game using a **neural network**. The AI is trained using **reinforcement learning techniques**, allowing it to improve its performance over time.

Certificates

**PepsiCo - Advanced Software Engineering Job Simulation** June 2025 **The Complete Python Developer: Zero to Mastery** July 2022  
**The Complete Web Developer: Zero to Mastery** October 2022

**iOS App Development** June 2023

**Android Oreo Developer Course** September 2023

**Complete JavaScript Course** June 2024