Niteesh Panchal

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Aspiring Software Engineer with a strong foundation in computer science and hands-on experience in full-stack development. Skilled in 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: HTML, 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, Linux, Azure
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 Testing Scripts
Tools & Methodologies: JIRA, Agile (Scrum, Kanban), SDLC, Unit Testing (Mocha)

Projects

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: **React**, **Zustand**, **Firebase**, **Socket.io, Express.js, MongoDB, Redis**, and **Elasticsearch**. Improved search/query speed by 40% using Redis caching and Elasticsearch indexing.

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   *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   *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   *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