

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 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
Courses: DBMS, Deep Learning, Web Programming, KDD, Mathematical Foundation of ML	
University of Mumbai	Mumbai, India
Bachelor of Science in Computer Science GPA: 3.8	2022
Courses: Data Structures, Algorithms, Linux (Server Administration), AI, Computer Design, .NET, Android Dev	

Work Experience

Stevens Institute of Technology	Hoboken, New Jersey
Course Assistant for Full Stack Web Development	Jan 2025 – May 2025
<ul style="list-style-type: none">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, JQuery
Web Development: React.js, Next.js, Vue.js, Angular, Redux, Bootstrap, Tailwind CSS, ShadCN/UI, Zustand,
Backend & APIs: Node.js, Express.js, FastAPI, Flask, REST APIs, GraphQL, Redis
Databases & Storage: MongoDB, PostgreSQL, MySQL, SQL, Supabase
DevOps & Cloud Computing: Docker, Git, CI/CD, Kafka, AWS, GCP, Linux
Mobile: Android (Java/Kotlin), iOS (Swift), React Native
Machine Learning & Data Science: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Data Mining
Automation & Scripting: Selenium, BeautifulSoup, Web Scraping, Automation Scripts, N8N
Tools & Methodologies: JIRA, Agile (Scrum, Kanban), SDLC, OpenAPI, Unit Testing, Integration Testing,

Projects

<u>Liv-Echo</u>	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.	
<u>Student Planner</u>	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.	
<u>Image Recognition</u>	Stevens Institute of Technology, 2024
Developed a Convolutional Neural Network to accurately detect and count tomatoes in images, achieving over 90% accuracy.	
<u>Interest Rates Prediction</u>	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.	
<u>Flappy Bird AI</u>	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