

NISHCHAY PATEL

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EDUCATION

Georgia State University, Atlanta

Bachelor of Science in Computer Science, Certification in Data Science

GPA: 3.92

Relevant Coursework: Software Engineering, Machine Learning, Database Systems

Certifications: Amazon Web Services Specialization, Databricks Engineering, GSU - President's List, NASA ATX

May 2025

SKILLS

LANGUAGES: Python, Java, JavaScript, HTML, CSS, SQL, C

FRAMEWORKS: Django, React, Node.js, Git, Flask, TensorFlow, Lang-chain

TOOLS: Amazon Web Services, Microsoft Azure, Open AI Services, Power BI, Google API Services

EXPERIENCE

AI Software Engineering Internship

July 2024 – Present

Resilience, Inc.

Remote, U.S.A

- Advanced the CNN models, increasing speech recognition accuracy by 15% for critical car accident intervention.
- Configured Python-to-Swift integration, reducing in-app analysis latency by 40%, enhancing real-time responsiveness and user safety.
- Preprocessed data for emotion identification models by adding labels to audio files (.wav), converting them to Mel spectrograms, which increased the efficiency of data processing by 25%.

Software Engineering Intern

May 2024 – July 2024

Hawkeye Hotels and Management

Remote, U.S.A

- Implemented generative AI model using Python to automate the creation of multi-paragraph hotel reviews based on customer ratings from over 30 service categories.
- Functionalized a cloud-based infrastructure on AWS to handle data processing, ensuring scalability and reliability of the review generation system, improving latency by 48%.
- Assembled the final application reducing guest review time from 1-3 minutes to under 30 seconds, increasing review completion rate by 60%

Data Engineer

September 2023 – May 2024

Evidence Based Cybersecurity Research Group, GSU

Atlanta, Georgia

- Engineered data cleaning and machine learning algorithms to ensure proper analysis of datasets, resulting in a 25% improvement in data accuracy for the industry clients.
- Implemented linear regression modeling to accurately forecast outcomes and identify trends within targeted markets, obtaining prediction accuracy of 86%.
- Optimized data analytics processes using Python, enhancing research quality by 30% and reducing analysis time by 40%

PROJECTS

Career Swipe - Chief Software Engineer

[CareerSwipe.com](#)

January 2024 – Present

- An advanced AI powered job-hunting site, spotlighting the employee to various recruiters, initially focused to be used at career fair.
- The web service also provides resume insights and improvement suggestions to the job seeker improving their chance to stand out by 28%.
- Tech Stack: Python, Django, AWS, Firebase Services, Google Generative AI API, HTML, CSS, TypeScript

Home Swap – Elo Stack - Backend Engineer

June 2024 – Present

- An application revolutionizing home exchanges by offering a secure platform for listing, discovering unique properties globally, and fostering sustainable travel and cultural exchange.
- Comprised with advanced search and filtering capabilities, reducing query response times by 33% and improving user experience.
- Tech Stack: Amazon Web Services, JavaScript, React, Node.js, Express, MongoDB, Stripe

Prediction on Point - HACK-Georgia Institute of Technology - Software Engineer

October 2023

- A prediction application, supported by Support Vector Machine model, that predicts the winner of Premier League game with 79% precision.
- The machine learning algorithm operates on the last 10 years of data which includes 20+ game factors and betting data from 6 betting websites.
- Tech Stack: Python, Swift

Movie Quote Search - Software Developer

June 2023 – July 2023

- A semantic search platform developed using OpenAI's text-embedding-ada-002 model for leveraging cosine similarity to provide precise outputs.
- The application helps eliminate the need to sift through countless alternatives and get the desired quote with 87% accuracy.
- Tech Stack: Python, OpenAI API, HTML, CSS, JavaScript

LEADERSHIP & AFFILIATIONS

- Treasurer:** Association for Computing Machinery

June 2024 - Present

- Food Volunteering:** Dream Foundation

August 2022 - Present

- Badminton Club:** Member

January 2022 - Present

- Hobbies:** Open-Source Contribution, Basketball, Soccer, Badminton