

Amit Anantrao Patil

510-435-5509 ♦ iamitpatil2001@gmail.com ♦ [Github](#) ♦ [Linkedin](#) ♦ [Portfolio](#)

EDUCATION

California State University, East Bay, Hayward, California

May 2025

Masters of Science in Computer Science (GPA: 4/4)

Relevant Courses: *Advanced Algorithms, Web Systems, Cybersecurity, Theory of Computation, Operating Systems Design, Machine Learning, Advance Artificial Intelligence, Database & Management Systems.*

TECHNICAL SKILLS

Programming Languages: Python, C++, Java

Databases: MySQL, PostgreSQL, MongoDB, Snowflake(worked on caching and high-performance data retrieval)

Frameworks & Tools: Flask, Django, Node.js, Express.js, Airflow, REST APIs, Streamlit, Tableau

Cloud Technologies: AWS (S3, EC2, Lambda, RDS), Google Cloud (Compute Engine, BigQuery, Cloud Functions)

AI & Machine Learning: LLMs , RAG , Vector Databases, Image Processing, Reinforcement Learning, PyTorch, TensorFlow, Prompt Engineering, Fine-Tuning, Backend AI Services.

WORK EXPERIENCE

California State University, East Bay

2024

Student Assistant

- Built and maintained autonomous Duckiebots using NVIDIA Jetson Nano and ROS for real-time navigation and obstacle detection in Duckietown environments.
- Documented and streamlined assembly procedures and coding standards for robotics lab, resulting in a 30% reduction in setup time for new systems.

Kipi.ai

2023

Senior Software Engineer

Remote

- Reduced cloud data warehousing processing time by 40% by implementing optimized data flow pipelines and enhancing storage utilization.
- Migrated high-volume data from RDS to Snowflake using Airflow, decreasing reporting latency by 20% and allowing for real-time analytics.

Software Engineer

2022 - 2023

- Spearheaded the development of a Data-Ops pipeline, applying Agile and DevOps practices to reduce deployment failures by 30% and increase delivery speed by 20%.
- Partnered closely with stakeholders to define project scopes, leading to a 25% reduction in project timeline and a 15% boost in customer satisfaction.

Software Engineer Intern

2022

- Drove data engineering initiatives, improving data-driven decision-making by 20%.
- Optimized data storage and analytics with Snowflake, reducing processing time by 15%.

NTT DATA

2021 - 2022

Software Engineer Intern

Remote

- Developed API solutions with MuleSoft, improving integration efficiency by 25% across distributed data sources for various enterprise clients.

PROJECTS

AI Learning Assistant | [GitHub](#) | 100+ hours

- Developed a Zoom-based chatbot that summarizes lecture content, generates quizzes, and offers additional learning resources using Fireworks AI and Qdrant.
- Implemented seamless integration with Zoom APIs to provide real-time lecture summaries and resource generation, enhancing student engagement.
- Built an architecture using LlamaIndex for data organization and vector search capabilities with Qdrant for fast and relevant information retrieval.

Notes Sorter | [GitHub](#) | 40+ hours

- Developed an automated tool that detects colored Post-it notes in images and categorizes them in Google Drive using Google Drive API.
- Scaled application to support multiple color categories and formats, streamlining document organization workflows.

Podcast Scraper and Transcriber | [Github](#) | 60+ hours

- Built a web scraper and transcription service for podcasts, using APIs (Spotify, Apple Podcasts) and integrating Streamlit for front-end interfacing.
- Developed backend automation to streamline transcription processes and enhance accuracy, resulting in a 20% reduction in manual editing.