

# Vishal Patel

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## EDUCATION

### Rutgers University – Computer Science, B.A.

Class of 2025

Relevant Coursework: Data Structures, Software Engineering, Design & Analysis of Algorithms, Intro to A.I., Intro to Data Science

Awards: Dean's List Fall 2021, Spring 2024, Spring 2025

Beta Chi Theta National Fraternity, Inc: Founder, Social Director

Thaakat Foundation: Public Relations Chair

## SKILLS

**Technical Skills:** Python (Django, Pygame), Java (JavaFX), Github & Git, SQL, Javascript (Express, React, React Native, Node.js, TypeScript)

**Languages:** English (fluent), Gujarati (fluent), reading/writing ability in Hindi (basic)

## PROFESSIONAL EXPERIENCE

### Stealth AI FinTech Startup – Credit Risk & Fraud Automation

August 2025 - November 2025

Software Engineer (Contract) | *Python, SQL (PostgreSQL), LangChain/LangGraph, PydanticAI*

- Architected an AI-driven email agent that triages high volume AP/AR inboxes in real time, eliminating manual sorting and ensuring no vendor or customer inquiry is missed.
- Automated intent detection and response drafting for common finance workflows (payment status, invoice copies, disputes), thus reducing analyst workloads by an estimated 60-70%.
- Designed an extensible orchestration layer (LangGraph + PydanticAI) that scales across multiple tenants and channels (email, Slack), supporting enterprise grade throughput.
- Enabled finance teams to meet SLA targets reliably, unlocked 24/7 responsiveness, and created a feedback loop for accuracy and improvements.

### Ramp

July 2024 - December 2024

Software Engineer (Contract) | *Python, SQL (PostgreSQL)*

- Developed several backend receipt integrations with high TPV merchants (+\$421.85 million, >1.26M transactions annually), including United Airlines, Delta Airlines, and Walmart, driving adoption and conversion into Ramp's highest tier SaaS offering (Ramp Plus).
- Created internal API endpoints to allow for cross-service communication, and performed database migrations to capture structured receipt data.
- Drove release process from internal launch, alpha, beta, and GA, currently improving the receipt experience of thousands of users, with a success rate of ~87% across the many integrations I shipped.

## PERSONAL PROJECTS

### Interactive Story Generator - Full-stack AI Storytelling Engine

Demo Link: <https://dd4da2b8-8671-4d7c-9aa9-41425b5926a6.e1-us-east-azure.choreoapps.dev/>

August 2025

*Technologies: TypeScript, React, FastAPI, PSQ, OpenAI, LangChain, SqlAlchemy, Python, Vite*

- Built an LLM powered “choose your own adventure” engine from scratch – type in a theme, got back a playable branching narrative with multiple endings and shareable URLs.
- Architected recursive story tree processing, async job queues, and a LangChain+Pydantic pipeline to validate deeply nested JSON into structured DB rows

### Google-Shopping Web Scraper using Crawl4AI

July 2025

Source code: [https://github.com/ChiefVishPat/web\\_crawler](https://github.com/ChiefVishPat/web_crawler)

*Technologies: Python, Crawl4AI, Playwright, Pydantic, OpenAI, uv*

- Built an AI assisted crawler that clicks every Google Shopping result, opens up the sidebar, extracts relevant info like product name, reviews, ratings, prices, and hyperlinks to stores
- Let GPT-4.1-nano generate the CSS/JSON extraction schema once, cache it to disk, and reuse it on subsequent runs – cutting token usage to virtually a one time cost.
- Added an interactive CLI that prompts for a search query, launches a headless browser, and saves JSON formatted results into a ‘scrapes/’ directory.

### Intelligent Slack Agent for Document Processing & AI-driven Summarization

June 2025

Source code: <https://github.com/ChiefVishPat/missing-contract-legal-agent>

*Technologies: Python, Slack API, OpenAI GPT, GitHub API*

- Built a Slack agent that automates document intake workflows by extracting and summarizing diverse file types (PDF, DOCX, TXT) using OpenAI's GPT-4 models.
- Developed dynamic AI prompt switching to tailor summarization styles based on user context, improving accuracy and usability across teams.
- Implemented async file handling and Slack messaging with well-formatted AI summaries to enhance readability and engagement.
- Integrated automated issue creation in GitHub to track and collaborate on document reviews, with modular design enabling integration with other ticketing systems.