

Kacper Pagacz

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EDUCATION

New Jersey Institute of Technology, *Master of Science in Computer Engineering*

Newark, NJ
Incoming
September 2026

New Jersey Institute of Technology, *Bachelor of Science in Information Technology*

Newark, NJ
Expected May 2026

Relevant Coursework: Programming Lang Concepts, Intro To Computer Networks, Principles Of Oper Sys, Systems Integration, Computer Systems and Networks, Database Design Management & Applications, Computers, Society & Ethics, E-Commerce Technology, Computer Forensic

PROFESSIONAL EXPERIENCE

Agency42, AI Engineer Intern, Los Angeles, CA

March 2025 - June 2025

- *AI Pipeline Architecture:* Developed intelligent agent systems using Supabase as the backend infrastructure for real-time data processing and model orchestration
- *Machine Learning Integration:* Implemented custom AI models with Supabase Edge Functions for serverless inference and automated model deployment workflows
- *Software Architecture:* Designed scalable micro services architecture with containerized AI services and RESTful APIs for enterprise integration

Akings, Software Engineer Intern, New York, NY

January 2023 - March 2023

- *MySQL:* Developed a full-stack web application using Node.js and MySQL with secure user authentication including password hashing and JWT token management.
- *User Interface:* Utilized ReactJS to build a responsive front-end interface with component-based architecture and React Hooks for state management.
- *Data:* Built a sales tracking application that monitored transactions, inventory levels, and customer purchase history.

PROJECTS

Real Estate Analyzer:

- Developed a full-stack real estate PDF analyzer using FastAPI backend and Next.js frontend that leverages MinerU library for advanced PDF processing with superior text extraction and layout analysis capabilities.
- Implemented automated data extraction algorithms to identify and parse key property information including listing prices, square footage, number of bedrooms and bathrooms, and property addresses from various PDF's
- Built a modern, responsive web interface using Next.js that allows users to upload PDFs, view extracted data in organized tables, and download results for further analysis.
- Designed an efficient processing pipeline with FastAPI to handle multiple PDF uploads simultaneously, ensuring fast response times and reliable data extraction across different document structures.

Robinhood MCP:

- Developed a comprehensive Robinhood portfolio tracking system with a Python backend that integrates with the Robinhood API to fetch real-time stock prices, portfolio positions, and account balances.
- Implemented an automated trading bot using algorithmic strategies based on technical indicators (moving averages, RSI) with customizable buy/sell triggers and risk management parameters.
- Built real-time portfolio monitoring dashboard displaying current holdings, profit/loss calculations, and performance metrics with WebSocket connections for live updates.
- Integrated Model Context Protocol (MCP) to enable AI model interaction, allowing natural language queries about portfolio performance, market analysis, and trading recommendations with context-aware responses.

Luminus:

- Built a full-stack ticket management platform using React, Node.js, and Express with Supabase (PostgreSQL) for real-time monitoring and automated checkout across multiple platforms
- Implemented CSV import/export functionality to bulk process ticket sales data, validating entries and handling errors during batch operations.
- Created a proxy testing module that validates proxy server connections, checks response times, and rotates through proxy lists to ensure reliable automation across multiple IP addresses.

SKILLS

Language: Java, Javascript, Python, Golang, JavaScript, TypeScript, HTML/CSS, SQL, Solidity

Frameworks: React, Svelte/SvelteKit, Vue, NodeJS

Tools: Heroku, Git, MongoDB, Firebase, AWS, Google Cloud, Twilio