

# Zachary Bakhchi

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## EXPERIENCE

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### Ana's Cloud LLC

Engineer

Manhasset, NY

September 2023 – Present

- Efficiently resolved hundreds of client support tickets while maintaining strong customer satisfaction.
- Leading product development of intrusion detection system as a service to clients.
- Led the successful implementation of an AI chatbot, enhancing customer engagement for a major client.
- Serve as in-house expert on ADA compliance and advanced web design tailored to small business needs.
- Participated in disaster recovery for a client following data-breach.

Intern

December 2022 – August 2023

- Explored the potential of Microsoft Copilot and other large language models, proposing innovative client solutions.
- Maintained environments and created detailed network diagrams for a diverse client base.
- Executed data migration projects, transitioning legacy hard drives to Microsoft SharePoint and OneDrive.

## PROJECTS

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### AI-Chatbot for The Conference Board | Python, JavaScript, Azure AI, Git

June 2024 – April 2025

- Developed an AI-powered chatbot for The Conference Board enabling users to preview subscription-based content.
- Created a NodeJS script to parse, vectorize, and upload document data to an Azure AI Search Index.
- Enhanced a chat system to query Azure Search, Bing API, and include email support system.
- Regularly discussed and presented proof of concept to CTO and other relevant stakeholders.

### Client Intrusion Detection Service | Python, Computer Networks, Linux

May 2025 – December 2025

- Deployed a network intrusion detection and log correlation system using open-source tools for real-time threat monitoring.
- Tuned detection rules and logging configurations to reduce false positives while preserving alert accuracy.
- Automated maintenance tasks with shell scripts for log rotation, resource usage, and service health checks.
- Utilized antivirus API queries to consolidate and enrich centralized log collection.

### Video2ASCII | Python, OpenCV

December 2025

- Built a real-time ASCII video rendering engine in Python using OpenCV, converting webcam, video, and image inputs into configurable ASCII output.
- Supports arguments to specify output color style, output resolution, and input source.

## EDUCATION

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### The Cooper Union for The Advancement of Science and Art

New York, NY

Bachelor of Engineering in Electrical Engineering, Half-Tuition Scholarship

Aug. 2023 – May 2027

**Related Coursework:** Digital Logic Design, Programming for Electrical Engineers, Data Structures and Algorithms (I & II), Computer Architecture, Communication Networks, Operating Systems, Software Engineering, Calculus (I-III), Differential Equations, Probability, Signal Processing, Digital Signal Processing, Stochastic Processes

## SKILLS

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**Programming Languages:** Python, JavaScript, HTML, SQL, Java, C/C++, PHP, MATLAB

**Developer Tools:** Git/GitHub, Jira, Azure AI, Microsoft Office, Google Workspace, Microsoft Visio, OpenCV

**Operating Systems:** Windows, Linux

**Technical Knowledge:** Electrical Engineering, Computer Networks, Computer Hardware, Helpdesk Support

## EXTRACURRICULAR ACTIVITY

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**Personal Interests:** Chess, Puzzles, Movies, Music, Exercise, Gaming

**Club Involvement:** Hillel (President), IEEE