

Zachary Bakhchi

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EXPERIENCE

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

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

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

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

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

Club Involvement: Hillel (President), IEEE