

Zachary Bakhchi

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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, Circuit Analysis, Data Structures and Algorithms, Signal Processing, Electronics, Computer Architecture, Calculus (I-III), Differential Equations, Probability

EXPERIENCE

Ana's Cloud LLC

Manhasset, NY

Engineer

September 2023 – Present

- Led the successful implementation of an AI chatbot, enhancing customer engagement for a major client.
- Conducted in-depth research on ADA compliance and advanced web design strategies tailored for small businesses.
- Diagnosed and resolved technical issues while developing custom programming solutions for client applications.
- 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.
- Provided desktop support, audited IT assets, and created detailed network diagrams for a diverse client base.
- Played a key role in training a remote technician, eventually co-managing operational responsibilities.
- Executed data migration projects, transitioning legacy systems to modern, cloud-based storage solutions.

PROJECTS

Large Client AI-Chatbot | *Python, NodeJS, Microsoft Azure OpenAI, Git*

June 2024 – Present

- Made for The Conference Board (a client of Ana's Cloud) allowing users to preview TCB's subscription based content.
- Wrote a custom NodeJS script to parse through TCB's various documents, vectorize its contents, and upload it to a Azure AI Search Index.
- Customized an open source "ChatGPT" app to connect to search index and a Microsoft Bing API, querying relevant topics to TCB Copilot.

Digital Portfolio | *HTML, JavaScript, Git*

December 2024 – Present

- Developed a digital portfolio to showcase an expanded range of projects beyond what fits on a resume.
- Hosted on GitHub Pages, enabling seamless deployments and integration. Accessible at bakhchi.github.io.

Network Diagram | *Microsoft Visio*

July 2023

- Compiled documentation of network infrastructure at one of Ana's mid-sized clients.
- Learned how each part of the client's environment interacted with the other.
- Utilized the diagram as a map whenever there is any potential internet outage.

SKILLS

Languages: HTML, JavaScript, PHP, Java, C, Python, MATLAB

Technologies: Git/GitHub, Jira, Microsoft Office/Google Workspace, MS Azure AI and Copilot Products

Others: Electrical Engineering, IT Helpdesk, PC Components, Basic AutoCAD, Microsoft Visio, \LaTeX , Logisim

PERSONAL INTERESTS

- Exercise
- Movies
- Chess
- Music
- Puzzles