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*
- Research into ADA compliance and best practices in web design for small businesses.
- Troubleshooting and basic programming for clients app.
- AI Chatbot implementation for large client.
- Disaster recovery for clients.

Intern   *December 2022 – August 2023*
- Desktop support, surveyed IT inventories, and compiled network diagrams for a range of clients.
- Took part in the training of remote technician, eventually sharing responsibilities.
- Research into Microsoft Copilot and other LLM's and their potential implementations for clients.
- Facilitated data migration from legacy hard drives to cloud based storage solutions for clients.

PROJECTS

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 clients environment interacted with the other.
- Utilizing the diagram as a map whenever there is any potential internet outage.

Game Portfolio | *C, Python, Git*   January 2024 – May 2024
- Made games in Programming for Electrical Engineers, a basic computer science class at Cooper Union.
- SOS - Like Tic Tac Toe, but with a greater degree of difficulty. Programmed in C.
- Uno - The card game where friendships are destroyed. Programmed in Python.
- Wheel of Fortune - As seen on TV. Programmed in Python.

TCB Copilot | *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.

SKILLS

Languages: HTML, JavaScript, PHP, Java, C, Python
Technologies: Git/GitHub, Jira, Microsoft Office/Google Workspace, MS Azure AI and Copilot Products
Others: IT Helpdesk, PC Components, Basic AutoCAD, Microsoft Visio, LaTeX, Logisim

PERSONAL INTERESTS

- Exercise
- Movies
- Chess
- Music
- Puzzles