Adrien Bekker

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EDUCATION

University of Massachusetts Amherst   **September 2022 – May 2025**
BS Computer Science, Business Minor   *GPA: 3.94/4.0*
- Coursework: Data Structures, Physical Computing, Computer Systems, Operations Management, Artificial Intelligence, Machine Learning, Marketing, Algorithms, Quantum Computing, Management Principles, Data Science Algorithms
- Activities: Club Rugby and Machine Learning Club
- Study Abroad - Singapore Management University - Spring 2024

WORK EXPERIENCE

Merck   **June 2024 – August 2024**
Clinical Data Management Intern   *Rahway, NJ*
- Worked with data managers to identify and automate manual clinical data management tasks to improve efficiency
- Developed a Python script that automated the mapping of clinical data cleaning tools to electronic case report form items, reducing data review time from hours to minutes
- Implemented a large language model (LLM) based solution to generate comprehensive meeting summaries, training team members on effective prompt engineering to optimize the summarization process

University of Massachusetts Amherst   **December 2023 – February 2024**
Research Assistant   *Remote*
- Utilized Python, Matplotlib, Pandas, Numpy, Tensorflow, Keras
- Produced synthetic network traffic data with general adversarial networks (GANs) that replicated real-world patterns without privacy risks, facilitating improvement of security, performance, and user experience

Code Ninjas   **July 2022 – August 2023**
Instructor and Teaching Assistant   *Westfield, NJ*
- Taught kids from ages 7-14 JavaScript and Scratch in after school sessions and weekly rotating camps
- Led 5 camps: Become a Youtuber, Minecraft Modding (learned variables, conditionals, loops to create their own Minecraft block, equipment, and mobs), MovieMaking with Minecraft, Inventors with Makey Makey (built circuits with conductive materials through wires and switches), and Stop Motion Animation

Def Hacks   **August 2020 – December 2020**
Computer Science Intern   *Remote*
- Brought Computer Science education to underrepresented communities
- Designed a lesson template and sample curriculum for HTML and CSS consisting of sample projects

TheOpenCode Foundation   **July 2020 – August 2020**
Computer Science Intern   *Remote*
- Brought Computer Science education to underrepresented communities
- Created, recorded, and edited curriculum for Java and Python
- Fundraised to buy supplies for underserved children

PROJECTS & AWARDS

MockAI   **Personal Project**
Python, React.js, Next.js, Groq, Llama
- Developed a web application that utilizes AI to create custom tailored mock behavioral interviews

IMG Models   **Hack2Connect | Best Usability**
Python, Flask, fastai, React.js
- Developed a web application in 48 hours which could create and train image recognition models without code

Feel The Beat   **NHacks | Top 15 Projects**
Python, Flask, Keras, React Native
- Developed an mobile application within 24 hours that can detect your emotion and recommend songs based upon it

CERTIFICATIONS & SKILLS

- **Certifications:** Deep Learning Specialization (DeepLearning.AI), Introduction to Computational Thinking and Data Science (MITx), AWS Fundamentals Specialization (Amazon)
- **Skills:** Python (Pytorch, Tensorflow, Numpy, Pandas, Selenium, Keras), Java, JavaScript/TypeScript (React), SQL, LLMs (ChatGPT, Gemini, Llama, Groq), Langchain