Aaron Zeng

+1 (301) 332 7814 - aaronz2003@gmail.com - Linkedin - github.com/azeng4499

EDUCATION

University of Maryland - College Park **Aug 2021 - May 2025**
B.S. Computer Science, Entrepreneurship Minor — GPA: 3.78 *College Park, MD*

- Relevant Coursework: Algorithms, Data Structures, Discrete Math, Data Science, Cryptography, Entrepreneurship, New Venture Growth Strategies

WORK EXPERIENCE

JPMorganChase **May 2024 - Aug 2024**
Software Engineer Intern - Machine Learning *Wilmington, DE*

- Contributed to the Machine Learning & Intelligent Operations department using Python, Spark, and Pandas to work on AI tools that enhance the efficiency of the company's customer support processes.
- Distributed code in a large Amazon Elastic MapReduce cluster into 6+ smaller AWS Glue jobs to increase processing efficiency, reduce resource consumption, and improve scalability.
- Leveraged Spark to optimize ETL (Extract, Transform, Load) workflows, enabling faster execution and efficient resource utilization within Glue jobs.
- Integrated 2 machine learning models with a performance monitoring platform to effectively detect data and model drift, with alerts triggered when such drift occurs.

JPMorganChase **May 2023 - Aug 2023**
Software Engineer Intern - Full Stack *Wilmington, DE*

- Contributed to the Finance Risk & Data Controls department, using React to work on tools that help the company generate quarterly reports and other financial documents.
- Consolidated 5+ internal reporting tools into a singular application, allowing for a simplified user experience, streamlined data analysis, and data consistency.
- Enhanced a Spring Boot backend and SQL database to handle higher loads via optimized query performance, efficient connection pooling, and scalable architecture design.
- Introduced a modern and intuitive user interface, employing best design principles to promote user engagement and satisfaction.

United States Department of Agriculture **May 2022 - May 2023**
Software Engineer Intern - Full Stack *College Park, MD*

- Aided the design and development of a dashboard where farmers participating in USDA research studies can read and write crop data.
- Used React and Tailwind to add graphs in order to help users easily read and compare data, enhancing visual comprehension and decision-making efficiency.
- Regularly connected with 20+ end users to gather feedback, ensuring continuous improvement of the product.

PROJECTS

- **Prept.Ai**, Launched an online platform designed to assist job-seekers in practicing their interview skills. Allowed users to record themselves answering questions and receive AI-generated feedback. Leveraged OpenAI's Whisper API and fine-tuned pre-trained LLMs to provide a quick and personalized analysis to users. Received $1500+ in grant funding through the UMD Dingman Center for Entrepreneurship, as well as $5000+ in other crowdfunding sources. Check it out here.
- **GptGO Chrome Extension**, Created a Chrome extension that allows users to access ChatGPT from any webpage without having to switch tabs to the website. Integrated Chrome Developer APIs for native features such as displaying ChatGPT's response as a notification and running process threads in the background. Used social media platforms to market the extension, reaching over 4.75 million viewers. Accumulated over 30 thousand users within the first 2 months of launch. Check it out here.

TECHNICAL SKILLS

Programming Languages: Javascript, Python, Ocaml, Java, Ruby, Rust, Go, C
Libraries: React, Redux, Express, Tailwind, PyTorch, Sklearn, Pandas, Numpy
Tools: Git, Docker, Node, Postman, Spark
Databases: MongoDB, Firestore, DynamoDB, MySQL