Luyu (Alex) Zeng

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA   **08/2022 – 12/2023**
Master of Information Systems Management
Relevant Courses: Database Management, Machine Learning, Distributed Systems, Data Focused Python, Economic Analysis, Statistics for IT Managers, Digital Transformation, Agile Methods.

Baruch College, New York, NY   **09/2017 – 06/2021**
Bachelor of Business Administration, Major: Finance, Minor: Physics
Relevant Courses: Corporate Finance, Investment Analysis, Service Operations Management, Object-Oriented Programming, Quantitative Physics II, Calculus II.

SKILLS & CERTIFICATIONS

Programming Languages: Python, JAVA, C++, C#, HTML5, CSS3, JavaScript, jQuery, Bootstrap, Firebase, Node Js, Express-js, Handelbars.js, and ReactJS.

Databases: MySQL, MongoDB, Redis, Cassandra, Neo4j.

Certifications: Data Structures and Algorithms (Coursera), Introduction to Discrete Mathematics for Computer Science (Coursera), Java Programming and Software Engineering Fundamentals (Coursera), Mathematics for Machine Learning: Linear Algebra (Coursera), Full Stack Developer (Columbia Engineering Coding Boot Camp).

ACADEMIC PROJECTS

Machine Learning and Deep Learning in Genomics and Health (MIT), Cambridge, MA   **07/2021 – 08/2021**
- Developed and deployed mathematical models that replicated the structure and function of biological neural networks.
- Achieved breakthrough success by applying machine learning techniques for classifying chest X-ray images, improved overall classification accuracy by 13%.

Algorithms and Applications in Data Mining (USC), Los Angeles, CA   **01/2021 – 04/2021**
- Collected and processed extensive datasets, established an effective recommendation system for online shopping platforms.
- Developed a complementary product recommendation system using big data from an e-commerce platform, and achieved a notable accuracy rate of 78% through proficient data mining.

WORK EXPERIENCE

Waffles, Pittsburgh, PA   **09/2023 – Present**
Founder, CEO
- Initiated and led a startup that leverages machine learning for enhancing credit card benefits.
- Developed proprietary algorithms improving user engagement and satisfaction.
- Managing a diverse team including marketing, and data analysis, promoting collaboration and innovation.

Lutheran Clinic, Fujian, China   **11/2021 – Present**
Public Health Data Analyst
- Addressed critical health and hygiene needs in rural areas through public health work in a developing province.
- Enhanced clinic efficiency and service quality with proposed digital medical data management systems
- Improved clinic operations significantly by leading a data-driven initiative that upgraded medical equipment and optimized pharmaceutical storage.

Summer Internship, Heinz College Career Services, Pittsburgh, PA   **06/2023 – 08/2023**
Intern, Full Stack Web Developer
- Developed and integrated database systems, which streamlined operations and enhanced functionality.
- Performed comprehensive market research, providing key insights for product design.
- Played a pivotal role in designing product features, significantly improving user experience.

Apple Inc. , Cupertino, CA   **09/2021 – 10/2021**
Machine Learning/AI Project Assistant
- Engineered neural networks for accurate house price predictions.
- Developed models for precise cancer classification using advanced neural network techniques.
- Built and implemented a neural network for digit recognition and CIFAR-10 image classification.
- Formulated comprehensive NLP models for efficient text prediction and automated text generation.