Kyle Yu

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EDUCATION

Boston University Faculty of Computing & Data Sciences; Boston, MA Jan 2023 – May 2026
Bachelor of Science in Data Science
Minor in Computer Science
Cumulative GPA: 3.59
Honors: Dean's List (every semester)
Societies: Club Volleyball Vice President & Captain, 180 Degrees Consulting Project Manager, Kappa Theta Pi

WORK EXPERIENCE

Shuum; Palo Alto, CA Sep 2024 – Present
Software Engineering Intern – AI/ML

- Contributing to the development of an AI system to drive innovation for a cleantech AI sales startup.
- Supporting the creation of a data model facilitating seamless integration to populate AI model with real-time, accurate data, enhancing recommendation system and operational efficiency.

Headstarter AI; Long Island City, NY Jul 2024 – Sep 2024
Software Engineering Fellow

- Developed RAG system with web scraped data and Pinecone to improve quality of generated text by LLMs
- Finalist in Retell AI Hackathon where my team built a conversational AI voice agent leveraging Whisper speech-to-text, WebSockets for real-time communication, Llama 3.1, and Tortoise text-to-speech
- Building a conversational AI mock interview platform to change the game for interview preparation

Milliman; Orange County, CA Nov 2022 – Jun 2023
Actuarial Data Processing Intern

- Developed 750+ dynamic, data-driven rate tables to calculate premiums, financial costs of risk, and uncertainty for auto and homeowner insurance, establishing the foundation for future actuarial analysis
- Reviewed 500+ rate tables for technical accuracy to prepare work for eventual coded rate wor

PROJECTS

Basketball Analysis System Jun 2024 – Present

- Uses machine learning, computer vision, and deep learning to analyze player performance and game dynamics
- Trained a custom object detector in YOLO using annotated detection data from Roboflow and implemented it in Python with enhanced accuracy in detecting players, referees, and basketballs
- Technologies used: Python, YOLO, OpenCV, KNN algorithm, Git

Analyzing Policy Effectiveness in Minimizing COVID-19 Growth Rate Mar 2024 – May 2024

- Orchestrated the ETL process through a seamless data pipeline using Microsoft Azure technologies
- Applied logistic regression statistics in Python to determine policies reducing 30-day growth rates
- Designed insightful Power BI visualizations to evaluate and convey the effectiveness of COVID-19 policies that led to growth rate of deaths > 1% and growth rate of cases > 3%
- Technologies used: Microsoft Azure, Power BI, SQL/DAX, Python

SKILLS AND INTERESTS

Coding: Python, SQL, JavaScript, Java, Rust, HTML, CSS
Libraries/Frameworks: Scikit-learn, NumPy, Pandas, Matplotlib, SciPy, TensorFlow, RAG
Tools: Microsoft Azure, AWS, Power BI, Git, Microsoft Excel, Pinecone, LangChain, APIs, Kubernetes, Docker
Interests: Volleyball, Basketball, Philosophy Books, Skiing, Fishing, Traveling, Stocks, Crypto