

Xiao Fischer

Robotics Data Science Intern

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STRENGTHS

-  **Collaboration**
Value diverse opinions and foster unity; frequently rallied teams around shared project goals.
-  **Communication**
Simplified complex ideas for broader audiences, receiving commendations for engaging presentations.
-  **Analytical Thinking**
Applied keen analytical skills to assess data trends and inform strategic decisions; valuable insights resulted from this focus.
-  **Creativity**
Inventive approaches led to fresh solutions in problem-solving, often thinking outside traditional frameworks.
-  **Resilience**
Adapted quickly to changes during projects, guiding teams through challenges towards successful completion.

SKILLS

- Machine Learning Python SQL
- Data Analysis
- Natural Language Processing
- A/B Testing Data Visualization
- Statistical Analysis
- Robotic Systems
- Automation Tools
- Performance Metrics Data Mining
- Algorithm Development
- Experiment Design
- Process Improvement

SUMMARY

Data Science Master's student eager to apply innovative solutions to complex problems in robotics and automation. Experience includes designing experiments, optimizing data processing with Python and SQL, and communicating findings effectively. Strong collaboration skills developed through multi-disciplinary teamwork in research environments. Presented at conferences, developed visual tools for data analysis, and built algorithms that improved performance. Passionate about enhancing customer experiences through data-driven insights. Seeking opportunities where creativity and analytical skills drive impactful results in robotic systems.

EDUCATION

Master of Science in Data Science

Boston University  GPA: 3.8  2026  Boston, MA

Coursework: Machine Learning, Statistical Analysis, Data Visualization, Robotics

TECHNICAL SKILLS

- Programming Languages:** Python, R, SQL
- Data Analysis Tools:** Pandas, NumPy, SciPy
- Machine Learning Frameworks:** Scikit-learn, TensorFlow, Keras
- Visualization Tools:** Matplotlib, Seaborn, Tableau
- Robotics Libraries:** ROS, OpenCV, PCL
- Statistical Software:** RStudio, SAS
- Database Management:** PostgreSQL, MySQL, SQLite
- Big Data Technologies:** Hadoop, Spark, AWS
- Project Management Tools:** Trello, JIRA, Asana
- Version Control Systems:** Git, SVN, Mercurial

EXPERIENCE

Robotics Data Science Intern

University Research Lab  June 2025 - Present  Cambridge, MA

Focused on advancing data science applications within robotics. Collaborated with faculty and peers, leveraging expertise in machine learning and programming languages like Python and SQL to enhance operational strategies.

- Designed and implemented machine learning models for optimizing robotic processes, significantly improving efficiency.
- Conducted experiment analyses in robotics, contributing new algorithm developments for data processing.
- Utilized data querying via SQL for extraction and analysis, enhancing system performance insights.
- Effectively communicated research outcomes at university events, simplifying complex concepts for varied audiences.
- Developed visualization tools for large datasets, making information accessible for non-technical stakeholders.
- Collaborated across teams to develop strategic plans for future research initiatives.

Capstone Project Developer

University Project  January 2025 - May 2025  Boston, MA

Led a team focusing on machine learning enhancements in robotic navigation systems. Fostered environment emphasizing cooperation, innovation, and rigor.

- Spearheaded capstone project applying machine learning techniques to improve navigation accuracy for robotics.
- Performed detailed data preprocessing and wrangling, ensuring optimal model training conditions.

LANGUAGES

English	Native
Mandarin	Proficient

MY CAREER



- Robotics Data Science Intern at University Research Lab (1.2 Years)
- Capstone Project Developer at University Project (4 Months)
- Research Assistant at Academic Research (3 Months)

- Engaged industry mentors, refining findings based on real-world feedback to iteratively improve project outcomes.
- Implemented A/B testing metrics for comprehensive model evaluation, resulting in substantial accuracy gains.
- Authored thorough documentation of methodologies, informing assessment protocols and future enhancements.

Research Assistant

Academic Research 📅 September 2024 - December 2024 📍 Boston, MA

Supported groundbreaking research in natural language processing as it relates to robotics, streamlining processes and enhancing communication capabilities.

- Facilitated research focused on NLP applications, contributing innovations within robotics frameworks.
- Analysed both qualitative and quantitative datasets, generating actionable insights supporting research goals.
- Interacted closely with academic faculty to refine research methodologies and experimental designs.
- Automated extensive data analysis procedures through scripting, elevating overall research efficiency and quality.
- Cultivated teamwork dynamics by sharing knowledge and best practices among fellow researchers.

LEADERSHIP & AWARDS

- Dean's List, Fall 2024, Spring 2025
- First Place, University Hackathon, 2025

CERTIFICATIONS

- Data Science Professional Certificate 📅 2025
- Python for Data Science 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, Data Science Society, 2024 – Present
- Volunteer, Computer Science Club, 2023 – Present

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST