Wen Xing

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SUMMARY

Staff ML engineer and former Meta Tech Lead actively developing LLM research skills, after

- Developing and launching first-in-industry harm monitoring and interventions at Meta during critical events (WSJ/NYTimes coverage), and
- Building battery research products and distributed infrastructure at a startup.
- Now advancing AI safety through Chain-of-Thought monitorability research.
- Expert at rapid research prototyping and production-scale reliability.

Throughout my career, I've prioritized making technology transparent and safe—from platform-scale harm mitigation to LLM monitorability research.

EXPERIENCE

ML Alignment and Theory Scholars (MATS) 2025 - present

- Conducting AI Control research on Chain-of-Thought monitorability in the David Lindner, Scott Emmons, and Erik Jenner stream

Independent AI Research Engineer 2024 - present

- Conducted funded research on Vulnerability in Trusted Monitoring and Mitigations in AI Safety Camp, and independent research on SAE-driven auto steering and Efficient Sparse Autoencoder feature splitting

Meta - Integrity Team — *ML Tech Lead* 2019 - 2021

- **Safety ML Ranking Interventions**
  - Investigated unprecedented social media ML ranking safety issues, architectured and launched ML interventions that stabilized the Facebook ecosystem during critical global events. Some of this work was highlighted in a WSJ series and a NYTimes article.
  - Convinced reluctant product organizations to adopt changes.
- **Analysis and Experimentations**
  - Designed and conducted ML ranking experiments and risk analysis, and presented critical insights weekly to directors from several organizations. These insights led to interventions.
- **Emergency Monitoring**
  - Built up and co-led a 15 person emergency monitoring team across four organizations to assess and handle unprecedented risks during critical times. This is a first at Facebook and in the industry.

Meta - News Product Team — *Tech Lead* 2017 - 2019

- **Core Engineering and Leadership**
  - Architected and continuously improved Instant Articles mobile infrastructure, focusing on product performance, code reusability, and developer experience (Instant Articles was then adopted by over 10,000 publishers worldwide *).

    - Built an iOS team in the News org from the ground up, supported multiple product teams inside the News org including Local News, News Credibility, Breaking News, and Instant Articles.
    - Established standards of experimentation process across the News org.
- **Product Leadership**
    - Co-founded Social News team. Built and grew a team to focus on social interactions, including reactions and conversations around news, and sharing news.
    - Collaborated with design, product management, data science, and research to convince News leadership that social interaction around news is worth investing in
    - Planned roadmap for Social News zero-to-one stage, and led experiments that validated the value of this investment. As a result, we doubled the size of the team.
- **Mentorship and Recruiting**
    - Mentored junior engineers on the News team.
    - Participated in company and team recruiting.
    - Taught iOS classes as part of Facebook iOS Academy.

Zitara Technologies — *Head of Platform Software* 2022 - 2023

- Led a product team to launch the company's first web product
- Built up the software department from 4 to 10 members

Zitara Technologies — *Staff Software Engineer* 2021 - 2022

- Built a scalable **Battery Model Research and Validation Infrastructure**
    - Developed a distributed research infrastructure on AWS EC2 for advanced state-of-charge (SoC) and state-of-health (SoH) battery modeling, leveraging a scalable workflow and parallel processing to accelerate high-fidelity simulations across diverse conditions. This infrastructure was crucial for model launch in 2022.
    - Optimized data storage and retrieval using S3, ensuring efficient handling of large datasets and experiment results for analysis and reproducibility. Utilized Python, Pandas, SQLAlchemy, and other AWS services to streamline data processing, automate workflows, and support iterative research and development.
    - Collaborated closely with researchers to rapidly develop research tools for battery modeling research, such as visualizing model performance over time
    - Led and contributed to codebase development and maintenance, ensuring robust, reproducible, and well-documented research pipelines
    - Coordinated weekly with both the research and engineering team, driving project planning, execution, and technical decision-making.

EDUCATION

Rice University — *Bachelor of Science in Computer Science*

Applied Math Focus

PROGRAMMING AND NATURAL LANGUAGES

Python, PHP, Objective-C, Javascript, C++, C; English, Mandarin Chinese

FRAMEWORKS & TOOLS

PyTorch, AWS, EC2, S3, Terraform, Flask, SQLAlchemy, Boto3, Pandas, Numpy, Hive, Jupyter, Einops, Git, Mercurial, Github Actions, React, Bootstrap, etc

HOBBIES AND INTERESTS

Competitive Powerlifting, Outdoor Rock Climbing, California Impressionist Painting