

# Fei Xue

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## RESEARCH INTEREST

*Human-AI Interaction, Affective Computing, Empathetic Interfaces, Online Harm Mitigation, Social Computing, AI Ethics*

## EDUCATION

<b>Northeastern University   Boston, MA</b>	<b>Expected Jul 2026</b>
<b>Master of Science, Computer Software Engineering</b>	GPA: 3.67
<b>Guilin University of Electronic Technology   Guilin, China</b>	<b>Jul 2023</b>
<b>Bachelor of Laws (LL.B.), Intellectual Property Law</b>	

## PUBLICATIONS

- Shan, G., Riedl, C., & Xue, F. (2025). *Preventing Real-world Doxing by Cataloging Incidents: A Doxing Incident Database*. [SSRN Working Paper](#).
- Xue, B.-P. & Xue, F. (2022). *Research on System of Access and Benefit Sharing of Traditional Knowledge Related to Genetic Resources*. *Journal of MUC (Natural Sciences Edition)*.

## RESEARCH EXPERIENCE

<b>Northeastern University   Boston, MA   Research Assistant</b>	<b>January 2025 – Present</b>
<ul style="list-style-type: none"><li>Designed a reporting platform (Doxing Incident Report) to study how emotionally supportive interfaces impact user experience in online harm scenarios.</li><li>Prototyped a chat-based interface with avatar mood feedback and AI prompts to comfort users during sensitive incident reporting.</li><li>Built a privacy-preserving backend system with full-text search and structured metadata tagging for user-submitted reports.</li><li>Integrated GPT-4 and DALL-E to auto-summarize incidents and generate visuals for content moderation workflows.</li><li>Analysed trade-offs between transparency, emotional safety, and user trust in human-AI interaction design.</li></ul>	
<b>Geode Blockchain   Remote   Software Engineer Intern</b>	<b>May 2025 – Present</b>
<ul style="list-style-type: none"><li>Investigated how to translate natural language inputs into safe and trustworthy blockchain actions in high-stakes governance scenarios.</li><li>Designed a dialogue agent framework combining local LLMs, intent detection, and RAG-based grounding in blockchain state.</li><li>Collaborated with protocol engineers to define ethical guardrails, ensuring input-output mappings remain interpretable and verifiable.</li><li>Explored how interface cues influence user trust in AI-driven action execution on decentralized platforms.</li></ul>	

## SKILLS

**Languages & Frameworks:** TypeScript, JavaScript (Node.js, Express), Python, Java (Spring Boot), React.js

**Databases:** MySQL (Sharding, Read/Write Separation), MongoDB, Redis, Sequelize ORM

**Cloud & DevOps:** AWS (ECS, Lambda, SQS, S3, Route 53), Docker, GitHub Actions, CI/CD

**System Design:** RESTful APIs, JWT, RBAC, Microservices, Caching, Rate Limiting, Structured Logging

**AI & Automation:** OpenAI API (GPT-4, DALL-E), Puppeteer, Async Task Queues

**Tools & Collaboration:** Git, GitHub Flow, Conventional Commits, Figma

## SELECTED PROJECTS

<b>Social Wave   Backend Developer</b>
<ul style="list-style-type: none"><li>Explored scalable authentication and access control schemes (JWT + RBAC) in user-generated content systems.</li><li>Implemented comment pagination and Redis-accelerated interactions to simulate high-concurrency moderation scenarios.</li><li>Designed database sharding and read/write separation as a case study in distributed system optimization.</li></ul>
<b>ChildArt Magazine Platform   Frontend Developer</b>
<ul style="list-style-type: none"><li>Investigated inclusive design strategies in children-focused cultural platforms.</li><li>Designed and developed responsive, accessible components in collaboration with visual designers.</li><li>Integrated interaction patterns (carousel, partner showcases) with a focus on user attention and narrative continuity.</li></ul>