

Mingjie Chen

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PROFILE

Rich practical experience in Data Privacy, Software Engineering, Machine Learning and Deep learning. Familiar with domestic and international privacy and data protection compliance requirements, such as GDPR, CCPA. Unique skill set that allows approaching Privacy from a technical perspective with a background in Software Engineering and undergraduate research experience in Artificial Intelligence. Proficient in Information Security, Python scripting, Database Management, etc. Excellent communication skills with experience in handling and influencing multiple projects. Ability to operate and communicate in ambiguous situations while bringing clarity.

EDUCATION

- Carnegie Mellon University, School of Computer Science** -- M.S. in Information Technology, Privacy Engineering *Pittsburgh, PA* • Dec 2022
- **Cumulative GPA:** 3.76/4.0 · **Major GPA:** 3.977/4.0
 - **Core modules:** Privacy in Digital Age (TA) · Usable Privacy and Security | Engineering Privacy in Software | Foundations of Privacy | Privacy Policy, Law and Technology | Information Security, Privacy and Policy | Law of Computer Technology | Search Engines | Introduction to ML | ML with Large Datasets
- University of California, Berkeley, Department of EECS** -- Concurrent Enrollment Student (Exchange Student) *Berkeley, CA* • Fall Semester 2019
- Northeastern University, Software College** -- B.E. in Software Engineering *Shenyang, China* • Jul 2021
- **GPA:** 3.867/4.0
 - **Core modules:** Human Computer Interaction | Cloud Services | Software Architecture & Design Patterns | Object-Oriented Programming | Computer Networks

TECHNICAL COMPETENCE

> Certification

- OneTrust Certified Privacy Professional

> Privacy & Security

- Privacy by Design and by Default
- GDPR, CCPA/CPRA, AAA
- Data Protection Impact Assessment
- Privacy Impact Assessments (PIA)
- NIST Privacy Framework
- Threat Modeling: STRIDE, LINDDUN
- Privacy Enhancing Technologies
- Differential Privacy
- Information Security

> Software Development

- **Programming Language:** Java, Java Spring, Java Web; Python, C++, C, Lisp; SQL; Vue.js, JavaScript, HTML
- **Tools:** Micro Services; PySpark, TensorFlow, PyTorch; MySQL, MyBatis, Redis; Maven; RESTful API, Linux, Git, AWS

PROFESSIONAL EXPERIENCE

- Analog Devices, Inc. -- Data Privacy Intern** *Tampa, FL* • May 2022 - Aug 2022
- Assisted in the development of privacy security lifecycle management measures; Output data privacy technical solutions and promoted their implementation.
 - Designed and improved the privacy review and approval process using the NIST privacy framework to reduce privacy risks throughout the product lifecycle.
 - Conducted reviews to identify and address privacy exposures in product development. Outlined the privacy policy of the new product and created a template.
 - Managed the receiving process of data collection requests, assessed privacy risks, facilitated the review and approval process.
 - Developed privacy threshold analysis (PTA) and privacy impact assessment (PIA) processes and built relevant documents and templates.
 - Prepared training materials to explain and compare GDPR and CCPA/CPRA requirements.
 - Influenced and built relationships with team members and ensured that all products, services, and projects were designed with data privacy protection in mind.
- Neusoft Corporation -- Software Engineering Intern** *Shenyang, China* • Jun 2020 - Aug 2020
- Participated in the design of project technical architecture, completed the discussion of system requirements and the realization of key technologies.
 - Built the storage system using MySQL and MyBatis on Alibaba Cloud RDS and OSS, migrated non-structural data from local storage.
 - Improved system performance and reduced loading speed by implementing a high-speed cache using Redis.
 - Developed Micro Services using Spring Boot and Spring Cloud frameworks, configured deployment automation using Jenkins and Docker.
 - Established a gateway using Spring Security and connected it to the Oauth2 authentication server for token verification. Built the front-end using Vue.js and Axios, and utilized RESTful API to communicate it with the back end.

CORE PROJECT

- User Privacy Expectations Concerning Twitch's AI Usage | Capstone Project Sponsored by Twitch** *Pittsburgh, PA* • Sept 2022 - Dec 2022
- Investigated how top live-streaming companies communicate their use of AI/ML to end users in their privacy policies, terms of use and technical blogs.
 - Analyzed the adequacy of the information disclosed according to the transparency requirements of GDPR, CCPA/CPRA, AAA and ADPPA.
 - Analyzed the customer facing ML documents of Twitch and the AI regulatory requirements proposed by Twitch; Developed recommendations based on the practice of other companies and the coverage of Twitch to different regulatory requirements. Reported to Twitch's privacy, machine learning, and legal teams.
- Data Breach Notification Terminology and Its Impact** *Pittsburgh, PA* • Jan 2022 - May 2022
- Poster Accepted on SOUPS 2022 Poster Jury
 - Conducted a user survey on Prolific, inviting 99 participants to complete the investigation on evaluating the segments of the data breach notification we developed based on the Massachusetts data breach archive.
 - Analyzed the readability of the notifications using Flesch Reading Ease Score and Flesch Grade Level.
 - Identified common themes and sentiment for qualitative open-ended questions using emergent coding and implemented double coding to increase reliability.
- Chrome Extension on Consumer CCPA/CPRA Rights** *Pittsburgh, PA* • Jan 2022 - May 2022
- Created a Chrome extension that allows consumers to specify "Authorized Agents" to exercise their right to opt out, know and delete on their behalf according to 11 CCR § 999.326.
 - Automated the generation of e-mails that include user signatures and personal information, allowing the organization to become an authorized agent for users.
 - Followed Privacy by Design approaches and Global Privacy Control principles in the development process.
 - Reported to California Privacy Rights Clearinghouse (PRC) representatives on the functionality of the extension and regulation testimony.
- Lucene-Indexed Text-based Search Engine** *Pittsburgh, PA* • Jan 2022 - Apr 2022
- Developed a search engine using Java on a Lucene-indexed corpus from ClueWeb09 dataset, evaluated it using P@n, MAP and other metrics in experiments.
 - Implemented multiple retrieval models, including Ranked Boolean, Okapi BM25, Indri, LeToR (Ranking SVM), etc.
- Spear-Phishing Email Auto-Generation and Detection** *Pittsburgh, PA* • Sept 2021 - Dec 2021
- Collected professional data from LinkedIn and established a spear-phishing email auto-generation system using Humantic AI and GPT-3 algorithm.
 - Implemented cognitive bias and syntactic text detection methods, such as Energy Based Text Model (EBM) and Giant Language Test Room (GLTR).
 - Validated that spear-phishing emails could be auto-generated and highlighted the need for new detection method to combat this growing threat.