

CHANTERIA MILNER

PROFESSIONAL EXPERIENCE

Senior Product Engineer

Change Research

May 2026—Present

- Build and ship full-stack features for Change Research's public opinion research platform.
- Develop custom audience management workflows and migrate internal survey tools into the client-facing portal.
- Build and refine survey validation tooling, including configuration interfaces, data validation flows, and user-facing feedback systems, increasing poll creation reliability at scale.
- Collaborate closely with product, engineering, and research teams to translate ambiguous requirements into production-ready solutions.

Software Engineer, Product

Consumer Reports, Innovation Lab

September 2025—May 2026

- Drove end-to-end iteration on AskCR, an AI-powered research assistant surfacing insights from consumer data.
- Translated high-level feature requests from product and marketing teams into actionable engineering tasks, defining technical requirements and implementing new AskCR capabilities.
- Leveraged Cursor to rapidly prototype and ship 5+ consumer-facing AskCR features, increasing product stickiness and user engagement.
- Built RAG pipelines with Databricks and Pinecone for natural-language querying of Consumer Reports datasets.
- Implemented backend services in Python and full-stack features in React to rapidly ship new product capabilities.
- Managed CI/CD pipelines and containerized deployments (Docker, Kubernetes) and maintain production reliability.

Software Engineer

Reveal Global Consulting – U.S. Census Bureau

July 2024—May 2025

- Designed APIs and middleware connecting data visualization tools with a multi-survey supply chain data warehouse.
- Reduced Commodity Flow Survey correction processing time by 90% through automated validation pipelines.
- Managed infrastructure and CI/CD pipelines across AWS, Docker, and Jenkins.

Data Scientist Intern

Reveal Global Consulting – U.S. Census Bureau

November 2023—May 2024

- Engineered a scalable full-stack application for the [Survey of State Government Research and Development](#) (SGRD), enhancing research capabilities and optimizing survey data processing workflows.
- Collaborated with survey analysts to transform user feedback into actionable improvements, resulting in the modernization of legacy systems, achieving a 75% increase in processing speed and user satisfaction.

Public Opinion Research Intern

NORC at the University of Chicago – Public Affairs and Media Research (PAMR)

June 2022—August 2022

- Programmed national public opinion surveys and analyzed responses for clients including the Associated Press.
- Processed and analyzed open-ended responses and produced public-use datasets for external research.

PROJECTS

Intelligent Harmonized System (HS) Code Search

Built a FastAPI retrieval service combining BM25 and HuggingFace embeddings with FAISS indexing to power real-time product classification search.

Sociology Honors Research Thesis

Designed and fielded survey experiments (700 respondents) analyzing public opinion of contraceptive recommendations across demographic groups.

EDUCATION

University of Chicago, MS Computational Analysis and Public Policy (Honors)

Machine learning, NLP, tech policy

Vanderbilt University, BA Sociology (Honors Program)

Minor: Computer Science

SKILLS

Languages: Python, TypeScript, JavaScript, R

Backend: FastAPI, Django, Flask, REST APIs

AI/Data: RAG, LangChain, HuggingFace, FAISS, BM25, Pandas

Cloud & Infra: Docker, Kubernetes, AWS, GCP, Terraform, Jenkins, Databricks

Databases: PostgreSQL, MySQL, MongoDB, Redis