

## **Goal Statement**

I am interested in developing AI-supported tools that make complex workflows easier to understand and use. With a background in bioinformatics and experience working across design and technical domains, my goal is to contribute to AI product development by focusing on problem framing, usability, and practical implementation. I aim to work on products where thoughtful design and technical feasibility come together to support real user needs.

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## **Core Focus**

- AI product concept development and usability
  - Applied AI systems and prototyping
  - Technical and data literacy for collaboration
  - Clear communication across disciplines
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## **Skills & Projects**

### **AI Product Concept Development & UX Strategy**

#### **Problem framing and design**

- Human–Computer Interaction (HCI)
- Interaction design and workflow design
- Usability analysis and heuristic evaluation
- User research and scientific workflow mapping
- Information architecture for complex tools
- Human–AI interaction principles

## **Applied in:**

- UCSC Genome Browser navigation redesign
  - NCBI landing page UX case study
  - AI product concept explorations
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## **Design & Prototyping**

- Wireframing
- Low- and high-fidelity prototyping
- Data visualization design
- Design systems

**Tools:** Figma, Framer

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## **AI Product Development**

*(Applied implementation for concept validation)*

- Prompt engineering
- Natural Language Processing (NLP)
- Retrieval-Augmented Generation (RAG)
- Agentic workflows
- Multimodal AI (text, image, speech)

## **Applied in:**

- Meta Data Project
  - Create Your Own ChatGPT
  - Image Caption Generator
  - GenAI Meeting Assistant
  - Voice Assistant
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## **Technical & Data Literacy**

### **Front-End & Scripting**

- HTML, CSS, JavaScript, React
- Python, Bash, Git

### **Back-End & APIs**

- FastAPI, SQL
- Linux
- Java, Perl, R

## **Data Analysis & Machine Learning**

- NumPy, Pandas, Matplotlib
- SciPy, scikit-learn
- Scanpy
- Streamlit

## **DevOps**

- Docker, Kubernetes
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## **AI Platforms & Tools**

- Hugging Face
  - Gradio
  - IBM Watson
  - Speech-to-Text / Text-to-Speech (Babel)
  - Flowise
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## **Communication & Collaboration**

- Cross-functional collaboration
  - Communicating technical concepts to non-technical stakeholders
  - Translating user needs into system requirements
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