

DHANNY INDRAKUSUMA

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EDUCATION

The University of Texas at Austin, TX

Expected Dec 2023

GPA 3.93

Master of Science in Information Science

- Recipient of SGX3 – Science Gateways Fellowship
- Winner of Data Storytelling Tableau Iron Viz Challenge (out of 42 participants)

Bachelor of Science in Textiles and Apparel Design, with Business Foundations Certificate

- Undergraduate Honors and College Scholar, recipient of three academic scholarships

EXPERIENCE

Research Assistant, Software Engineering – Texas Advanced Computing Center, Austin, TX

Aug 2023 – Present

- Develop [Machine Learning Hub](#), a full-stack web application consisting of three REST APIs (Models Hub API, Inference API, and Training API) for the Tapis Framework
- Implemented app in **Python Flask**, **FastAPI**, **Typescript**, and **React**, with Hugging Face Hub API and Tapis API integration
- Design interactive prototype on **Figma**; containerize and deploy app using **Docker** and **Kubernetes** for public access
- Selected to present the Machine Learning Hub project at TACCSTER 2023 and Science Gateways 2023 conference

Software Engineering Intern – SGX3, Austin, TX

Jun 2023 – Aug 2023

- Created a REST API consisting of five endpoints with user authentication for the Tapis framework using **Python Flask**
- Integrated Huggingface Hub API and Tapis API into the application; automated API testing using **Postman**

Assistant Community Coordinator – The University of Texas at Austin, TX

Jul 2022 – May 2023

- Led nine student leaders in planning and executing events; increased event attendance and applications by 250%
- Managed the community garden renovation project; awarded a \$26,000 sustainability grant by the Green Fund committee

Teaching Assistant – The University of Texas at Austin, TX

Feb 2022 – May 2022

- Guided 50+ students on their **Python** programming assignments and projects for the course “Programming for Informatics”

PROJECTS

KidTube | MongoDB, Express, React, Node, HTML/CSS, Figma, Git

Oct 2023 – Present

- Lead a team of three to develop a full-stack web application designed for kids to view and upload videos
- Designed wireframe, high-fidelity, and interactive prototype on **Figma**
- Implement app using **HTML/CSS**, **MongoDB**, **Express**, **React**, and **Node** with YouTube Data API integration

ChatGPT Clone | Python, Django, HTML/CSS, JavaScript, Git | [Github](#)

Oct 2023

- Built a full-stack web application with user and admin authentication using **Python Django**, **HTML/CSS**, and **JavaScript**
- Integrated OpenAI API for chatbot functionality

Diagnosis API | Python, Flask, Docker, Kubernetes, Git | [Github](#)

Apr 2023

- Developed and deployed a RESTful microservice with asynchronous and concurrent endpoints (messages queue and workers) that allows users to perform CRUD operations and submit long-running jobs for breast cancer diagnosis analysis
- Implemented app using **Python Flask** and **Redis**; containerized and deployed app using **Docker** and **Kubernetes**

Surf Wax ISS | Python, Flask, Docker, XML, Git | [Github](#)

Mar 2023

- Created REST API for ISS location tracking using **Python Flask**; containerized and automated deployment using **Docker**
- Wrangled XML data from NASA using **Python** requests and geopy libraries

News Articles Summarization | Python, scikit-learn, spaCy, gensim, T5-transformer | [Github](#)

May 2022

- Developed a text summarization algorithm to summarize 4,500+ news articles using spaCy and gensim
- Analyzed algorithm performance on different news categories; achieved a mean BLEU score of 96% using T5-transformer

SKILLS & COURSES

Languages: Python, HTML/CSS, JavaScript, SQL, C++

Frameworks/ Libraries: Flask, Django, FastAPI, React, Node, Express, Pandas, numpy, scikit-learn, spaCy, gensim, nltk

Tools: Git, Postman, Docker, Kubernetes, MongoDB, Redis, PostgreSQL, MySQL, Tableau, VS Code, Excel, Figma

Coursework: Web Application Development, Software Engineering and Design, Predictive Analytics and Data Mining, Data Wrangling, AI in Health, Health Informatics, Computer Vision, Human-AI Interaction, Machine Learning