Joseph Cramer

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EDUCATION

University of North Carolina at Greensboro (UNCG)

Greensboro, NC

B.S. in Computer Science (GPA 4.0) B.S. in Biochemistry (GPA 3.96) Aug 2021 - Present

University of Southern Denmark (SDU)

Odense, Denmark Feb 2023 – June 2023

Study Abroad Program

Apex, NC

Apex Friendship High School (AFHS)

Aug 2016 - June 2021

Academy of Engineering

RESEARCH EXPERIENCE

UNCG Biochemistry Lab

Greensboro, NC

Web development for rat lipidomic interactive data display

Jan 2024 - Present

- Working to develop interactive web application to display localized lipidomic data for mice
- Worked virtually and maintained clear, concise, and consistent communication with PI

SDU, Biology Department

Odense, Denmark

Determined cell cycle effects of cancer drugs

Feb 2023 - June 2023

- Worked to grow and maintain Osteosarcoma cancer cells
- Utilized the Fucci system with fluorescent tagging to track real time protein data
- Verified the mechanism of action for cancer medications through real time cell cycle analysis

SDU, Department of Green Technology

Odense, Denmark

Quantified variations in bioactive compounds in Rhodiola Rosea (RR)

Feb 2023 - June 2023

- Developed automated method for rapid data cleaning and analysis of HPLC UV-Vis Chromatogram data
- Analyzed data to quantify correlations between four bioactive markers and the geographic origin, portion of plant, and sex of plant
- Developed programs to generate graphs and figures automatically from the data with built in post-hoc analysis and significance testing

WORK EXPERIENCE

TalentTelligent Greensboro, NC

Al Intern

Sep 2023 – Present

As an AI intern I work closely with the CTO and upper management to prepare data for inclusion in an AIenabled database. I am responsible for tagging data, providing support in assessing AI functionalities, and providing clear documentation of changes and progress to ensure a smooth transition of intellectual property into the embedded database.

UNCG, CS Department

Greensboro, NC

Academic Tutor

Aug 2022 - Dec 2022

As an academic tutor I worked with the CS department to provide personalized support to students in their coding efforts. I was responsible for manning the CS lab, answering any questions, assisting with debugging code, and teaching problem solving to the students in the lab.

ACADEMIC PROJECTS

Home Security Product Development

Apex. NC

Project Lead

Feb 2020 - Feb 2021

- Managed a team of engineers to design, prototype, and present a robust door security package
- Used AutoCAD to model and stress test proprietary deadbolt design
- Developed, 3d printed, and tested several deadbolt prototypes
- Led the team to present product, market analysis, and test data to board of engineers

Nutrition Info Software

Greensboro, NC

Project Lead

Jan 2024 – Present

- Currently leading a team to develop a website and app that utilizes a database of products and ingredients to flag potential health hazards, allergens, or recalls
- Architecture will include an android app and webpage connected to the backend and database with python's Django

Convolutional Chess Neural Network

Greensboro, NC

Solo Project

Feb 2023 - Present

- Used PyTorch and Lightning to develop and test a CNN to play chess
- Developed novel network architecture to better give relational data to the NN
- Developing new graphical representations for training progress
- Optimizing architecture and hyperparameters to decrease training time and data requirements

SKILLS

| Computer Skills | | | | | | |
|-------------------|-----------------------|--|--|------------|-------------------------|--|
| | Proficient | | | | | |
| | Python | Microsoft Office (PowerPoint, Word, Excel) | | Java | | |
| | Knowledgeable | | | | | |
| | Java Script | Autode | sk (Inventor, Fusion 360) | | | |
| | HTML/CSS | LaTeX | | PostgreSQL | | |
| | 3d Printing | DJango | | MATLAB | | |
| Molecular Biology | | | | | | |
| | Gas Chromatography | | AAS (Atomic Absorption Spectra) | | Western Blot | |
| | Ion Chromatography | | DNA Amplification and Purification | | Pipetting | |
| | Gel Electrophoresis | | HPLC (high pressure liquid chromatography) | | SDS-Page | |
| | UV-Vis Spectroscopy | | PCR (polymerase chain reaction) | | Florescent Spectroscopy | |
| | HONORS AND ACTIVITIES | | | | | |

- Eagle Scout (2021)
- Freshman Project Performance Award (2017)
- Speech and Debate (2015 2021)
- Dean's List (2022 Present)