

# William (Liam) Stamper

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## Education

### **The University of Iowa, Iowa City, IA**

August 2021 – Anticipated December 2024

*Bachelor's Degree in Computer Science, Minor in Mathematics*

- **Course Work:** Data Structures, Algorithms, Discrete Structures, Calculus I-III, Matrix/Linear Algebra, Computer Science I-II, Software Development, Numerical Analysis (in-progress)
- **Extracurriculars:** Active member of the Association for Computing Machinery (ACM), UlowaHackathon 2023 Award Winner

## Experience

### **Undergraduate Researcher**

January 2024 – Present

*The University of Iowa, Iowa City, IA*

- Utilized Python in collaboration with Fiji ImageJ software to accurately count and analyze cells within bone marrow scans, enhancing research accuracy and efficiency
- Collaborated with a multidisciplinary team to validate cell counting methods, resulting in a 60% increase in data collection speed without compromising precision

### **Full Stack Developer Group Intern**

May 2022 – July 2022

*Quality Manufacturing, West Des Moines, IA*

- Engineered and deployed 5 dynamic form applications leveraging JavaScript, HTML/CSS, Ajax, MySQL, JSON and PHP
- Completed an intensive training program on web development framework and best practices
- Collaborated within a 5 person team to fulfill the technical requirements of over 10 client companies, enhancing customer satisfaction and operational efficiency

## Projects

### **Art and Artifact Cataloging System | PyTorch, Python, Matplotlib**

November 2023 – Present

- Retrained and implemented advanced PyTorch-based Faster R-CNN object detection models for identifying and localizing art pieces within images
- Ongoing project focused on advancing the capabilities of the cataloging system for art and artifact enthusiasts and professionals

### **Covid-19 Data Visualizer | Python, Flask, Pandas, Plotly, HTML/CSS**

November 2023 – Present

- Designed and implemented a web application utilizing Flask and Plotly to visualize COVID-19 datasets from John Hopkins University
- Developed a comparative analysis feature enabling users to contrast COVID-19 trends between various countries and regions

## Languages / Technologies

• **Languages:** Proficient in Python, Java, C++, JavaScript (including ReactJS), and SQL; knowledgeable in HTML/CSS and Tailwind CSS

• **Technologies:** Experienced with Git, Subversion, Docker, and familiar with Agile development methodologies