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), UIowaHackathon 2023 Award Winner

Experience

Undergraduate Researcher   January 2024 – Present
The University of Iowa, Iowa City, IA
  • Utilized 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 50% 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