

JOSEPH AMPFER

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Technical Skills

Python • JavaScript • C • HTML • CSS • React Native • SQL • Flask • Expo • Git

Projects

AMPFER Finance | Full-Stack Engineer – visit <https://github.com/joseph-ampfer/AmpferFinance> Jan 2024

Cross-platform mobile app for virtual stock trading

- Utilized React Native/Expo for iOS and Android compatibility
- Designed with real-time market data, virtual currency, and portfolio tracking capabilities
- Developed a Flask RESTful API backend for transaction processing, user authentication, and data persistence to allow for seamless frontend integration and optimal user experience

Personal Website | Front-End Engineer – visit <https://joseph-ampfer.github.io> Dec 2023

Portfolio web page

- Developed a responsive website using HTML, CSS, Bootstrap, and JavaScript
- Emphasized a minimalist design and interactive user experience
- Dynamic content features and responsive design elements, highlighting professional journey and technical skill

Work Experience

Cincinnati Children's Hospital – *Laboratory Technologist* May 2021 – June 2022

- Proficient in conducting complex laboratory tests and analyses using advanced equipment and techniques
- Excellent attention to detail and ability to accurately record and report results
- Strong problem-solving skills and ability to troubleshoot technical issues
- Streamlined lab processes, leading to 15% quicker turnaround time in labs for my benches

University of Kentucky College of Medicine – *Standardized Patient* Oct 2019 – Aug 2022

- Learned case scripts detailing emotions, behaviors, and disease symptoms for presentation during simulated learning situations
- Presented medical cases to over 200 medical students
- Improved medical student performance with accurate scoring and constructive one-on-one feedback

Northern Kentucky University – *Private Tutor* Sep 2020 – May 2021

- Leveraged positive reinforcement techniques to facilitate the mastering of complex scientific concepts, resulting in significant improvement in academic performance for 11 students at Northern Kentucky University

Leadership Experience

AI in Medicine Interest Group – *UK College of Medicine* Aug 2023 – Aug 2024

- Founded the AI in Medicine Interest Group at University of Kentucky College of Medicine
- In collaboration with Dr. Wael Eid, organized monthly events that brought together over 100 medical professionals to explore AI's implications in healthcare

Supplemental Instruction Leader – *Northern Kentucky University* Aug 2020 – May 2021

- Led a group of 28 students through 45 sessions by modifying lessons and curriculum to accommodate diverse learners and using strategies such as peer-assisted learning and group work
- Led fellow SI leaders in conducting 8 effective and efficient exam reviews with over 90 students per review
- Contributed to an increase in the average grade for organic chemistry compared to the previous year

Education

Harvard University – *Software Engineering – CS50 Certificate* Jan 2024

University of Kentucky College of Medicine Oct 2023

- Awards: Distinguished with First-Year Achievement Award
- Northern Kentucky University – Bachelor of Science – Biology – Cellular Molecular Genetics**
- Awards: Summa cum laude, MCAT: 521

Mar 2021

Research and Publications

Children's Book | Teeny Tiny Doctors: Bacteria and Antibiotic Resistance for Babies

Oct 2023

Author and illustrator

- Published with Amazon Kindle Direct Publishing, a fun way for kids to learn about science and medicine
- Was a #1 new release in children's biology books

AI in Eye Care – UK College of Medicine

Jun 2023 - Current

- Identifying the attitudes and feelings towards AI in diabetic retinopathy care among patients in Kentucky

Post-Partum Hemorrhage – UK College of Medicine

Sept 2023 - Current

- Identifying the cause of the major discrepancy between post-partum hemorrhage cases in the U.S. vs Sweden

Molecular Genetics – Undergraduate Research Assistant – Northern Kentucky University

Aug 2020 - Jun 2021

- Publication: visit <https://pubmed.ncbi.nlm.nih.gov/38184845/>
- Faculty Mentor Dr. Erin Strome, Chair/Professor
- Conducted innovative research on *S. cerevisiae* (yeast) genes SAM1 and SAM2
- Investigated the effect of the breast cancer drug Tamoxifen in relation to S-Adenosylmethionine (SAM)
- Contributed to a pioneering study in molecular genetics published in a peer-reviewed journal, enhancing understanding of drug interactions and efficacy in cancer treatment

Organic Chemistry – Undergraduate Research Assistant (Paid) – Northern Kentucky University

May 2019 - Dec 2019

- Faculty Mentor Dr. Amber Onorato, Associate Professor
- Synthesized novel small molecule inhibitors targeting mPGES-1 in a cutting-edge organic chemistry lab
- Contributed to potential breakthroughs in safer, more specific anti-inflammatory medications
- Project implications extend to reducing side effects of current drugs, with potential applications in treating inflammatory diseases, cancer, and neurodegenerative disorders

Formal Research Presentation – Southeast Regional IDeA Conference

Nov 2019

- Title: "Synthesis and PGE2 Inhibitory Activity of Novel Diarylheptanoids"

Service

Nathanial Mission and Salvation Army – Medical Ophthalmology Volunteer

Mar 2023 - Current

- Took detailed medical history and eye exam, then developed a care plan with the staff ophthalmologist for 15+ patients in the local homeless population

CCRU Free Health Clinic – Medical Volunteer

Nov 2022 - Current

- Served as triage for incoming patients, taking chief complaints and vitals
- Took detailed medical history and physical, then developed a care plan with the staff physician for 40+ patients in the local homeless population

The Christ Hospital – Volunteer

Aug 2019 - Dec 2019

- Provided updates to families about patients in the Joint and Spine Center
- Delivered flowers and mail to patients across the hospital.

Foresters – Volunteer

Oct 2017 - Oct 2019

- Served in an annual sandwich drive that distributed over 2,000 sandwiches to the local homeless community

Holly Hill Family and Child Solutions – Volunteer

May 2017 - Jun 2018

- Involved in setup, guest check-in, and clean-up for golf outings

Campus Ministry – Volunteer

Aug 2016 - May 2017

- Participated in student group that provided opportunities for the whole school to be educated about service, through organizing service learning and hands on community service projects, led and organized fundraising