

Anna Kis

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Education

The Ohio State University
Graduate Student in Mathematics

Sept 2024 – Present

- University Fellowship (2024)

University of Waterloo
BMath in Pure Mathematics and Computer Science

Sept 2018 – Dec 2023

- Exchange terms at Lund University and École Polytechnique Fédérale de Lausanne
- **Projects:** VR game in Unity with Oculus headset
- President's International Experience Award (2023)
- Don Mills Cross Country Award (2023)
- University of Waterloo Athletic Financial Award (2022)
- Fairfax Financial Athletic Leadership Scholarship (2021)
- Terry Goodenough Memorial Cross-Country Excellence Award (2020)
- University of Waterloo President's Scholarship of Distinction (2019)

Research Experience

Pure Mathematics USRA
University of British Columbia

Vancouver, Canada
April 2022 – Aug 2022

- Conducted research on Calabi-Yau manifolds in relation to the SYZ conjecture
- Attended talks on related subjects, presented own findings, and wrote report on work

QUASAR Undergraduate Research Assistant
University of Ottawa

Remote, Canada
Jan 2021 – April 2021

- Conducted research on the hidden subgroup problem in extraspecial p-groups
- Applied techniques from group theory and related literature to wreath product groups
- Attended weekly QUASAR, student, supervisor meetings to discuss and present work
- Wrote a summary of findings and held a final presentation on the topic

Undergraduate Research Assistant
University of Waterloo

Waterloo, Canada
May 2019 – August 2019

- Worked on functionalizing cellulose nanocrystals using silver nanoparticles to enhance antimicrobial properties of latex to develop novel, biodegradable surgical gloves
- Trained in a variety of machinery, including UV-vis, DLS machine, tensile machine
- Conducted lab procedures, including antimicrobial tests and latex preparation
- Conducted data analysis using Microsoft Excel and wrote SOPs

Industry Experience

Software and Machine Learning Engineer
BlonaAI

Berlin, Germany
January 2024 – June 2024

- Implemented features for and maintained a website using NextJS, GCP, and prisma
- Created and implemented machine learning solutions for complex RAG systems
- Developed novel algorithms for scraping and chunking various types of data
- Managed an individual, conducted interviews, and trained coworkers

Cybersecurity Intern
RCMP

Remote, Canada
Jan 2022 – April 2022

- Developed applications for analyzing and documenting indicators of compromise using Flask and MISP

- Built DNS-bind server for logging malicious IPs

Software Engineer Intern

DropoffAI

Remote, Canada

June 2021 – Oct 2021

- Used various Python libraries, including PyTest, to develop unit and software tests
- Built demo applications with Streamlit to showcase product
- Researched and developed machine learning solutions for various classification and clustering problems, including using graph-CNNs

R&D Intern

Fin Ventures

Remote, Canada

May 2020 – August 2020

- Conducted fundamental research on standards and protocols, including ISO 20022
- Produced clear and well-designed documentation for technical solutions
- Prototyped solutions to demonstrate proof of concept with rapid prototyping
- Effectively delivered presentations on the product and related concepts
- Organized and led a group of co-op students, managing numerous projects in parallel

Technologies

Languages: C++, C, Python, Matlab, C#, SQL, JavaScript

Technologies: GCP, Git, Firebase, Figma, PsychoPy, Microsoft Office, Unity