

Iryna Khovryak

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EDUCATION

Haverford College

B.S. Computer Science; Expected Graduation Date: May 2022

Haverford, PA

Sep 18 – Present

• **Major GPA: 3.78 / 4.0 | Cumulative GPA: 3.69 / 4.0;**

• **Relevant Coursework:** Algorithms and Data Structures, Discrete Mathematics, Calculus: Dynamics & Integration, Intro to Economics. *Future:* Linear Algebra, Principles of Programming Languages, Statistical Methods and their Applications

• **Technologies:** experienced in Java and C#; familiar with Python, Flask, Django, SQL

As part of Algorithms and Data Structures course:

• Developed image processing algorithms: quadtree decomposition, filters, image compression using Java

• Recreated ProPublica's risk assessment tool COMPAS analysis and analyzed its racially biased outcomes using Java

WORK EXPERIENCE

Full Stack Developer

Kenar Motors | Technology Department

Lviv, Ukraine

Jul 19 – Present

- Developing from scratch a fully responsive website for managing client database using Bootstrap, Flask, Python
- Managing web hosting and SEO

Full Stack Developer (part-time)

Haverford College Libraries | Digital Scholarship Department

Haverford, PA

Feb 19 – May 19

- Developed a web collection of Russian journals using Python, Django, and HTML & CSS
- Parsed and cleaned big amounts of data, implemented searching, filtering and exporting features

Software Development Intern

UkiePro Studio | iOS Team | ukiepro.com

Lviv, Ukraine

Jun 17 – Aug 17

- Developed iOS and Apple Watch application using Swift

TECHNOLOGY PROJECTS

“Gradual” | Web Development

Dynamic course mapping tool that helps students visualize their academic path to graduation

Haverford, PA

Feb 19

- With the team of four, developed a prototype of Gradual, responsible for web development using Python & Flask
- Won 1st place in a tri-college hackathon of Haverford, Swarthmore, and Bryn Mawr colleges

“PetSearch” | Web Development

Lost animal search and adoption website for Lviv city

Lviv, Ukraine

Feb 17 - Apr 17

- Lead a team of three to develop PetSearch and donated it to a local Lviv Community Shelter
- Responsible for merging front-end (Materialize framework) with back-end (Python and Flask Framework)
- Won 1st place in Lviv IT School and a grant of 400 USD (10000 UAH) for the project with the most social impact

“Bottle Strike” | Game Development

3D shooter game

Lviv, Ukraine

Nov 16 – Dec 16

- Developed Bottle Strike using C# and Unity, designed graphics using 3Ds Max

SOCIAL ENTREPRENEURSHIP PROJECTS

“United Robotics Generation (URGE)” | Non-profit | urgerobotics.org

Student-run non-profit organization established to support high school students in robotics, science, and technology by providing students with mentorship, funding, and engineering facilities

Kyiv, Ukraine

Apr 18 – Sep 18

- Co-founded URGE, managed legal issues of creating a non-profit, handled bank account creation
- Organized robotics events at Ukrainian largest IT incubator UNIT.City to recruit students for 1st Robotics team in Ukraine

“MakeLabs” | Non-profit | makelabs.org

Student-run non-profit in which we 3D print educational materials in Braille and donate them to educational institutions for children with visual impairments

Lviv, Ukraine

Oct 17 - Present

- Co-founded MakeLabs, managed legal issues, worked closely with teachers of specialized schools to get feedback for improving the 3D models
- Responsible for developing NFC chips to accompany 3D models with audio lectures

ADDITIONAL INFORMATION

- Clubs and Interests: Haverford Innovation Platform participant, Rewriting The Code member, Intramural Tennis player
- Languages: Ukrainian (native), English (fluent), Russian (native), Spanish (beginner)