

Patrick Kuczun

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Programming Languages: C++, Python, Kotlin, Java, JavaScript, C#, HTML, CSS, SQL

Frameworks/Libraries: React, NumPy, Pandas, Flask, Django, OpenCV, TensorFlow, Matplotlib

Technologies: Git, VS Code, GDB, Docker, Android Studio, SQLite, MySQL, Wireshark, .NET

Languages: English (fluent), Polish (fluent), Spanish (intermediate)

EDUCATION

University of Illinois at Urbana-Champaign (UIUC)

Expected May 2025

- BS Computer Science

WORK EXPERIENCE

Biokind Analytics

August 2023 - Present

Data Analyst Team Lead

Urbana, IL

- Led a subteam of 5 in collaborating with healthcare nonprofits, delegating tasks, and organizing meetings
- Conducted data-driven analysis of geographic trends and demographic characteristics among datasets of more than 40,000 cancer patients to help ease treatment using pandas, NumPy, and TensorFlow
- Worked with professors to legitimize findings, with the end goal of presenting to the healthcare non-profit

Illinois Solar Decathlon

August 2023 - Present

Housing and Lighting Automation Team

Urbana, IL

- Collaborated with engineering subteams to design and build an energy net-zero, solar powered house valued at \$350,000+ whilst competing in the Department of Energy sponsored solar decathlon competitions
- Communicated with sponsors and partners to maximize funding and provide smart appliances

ARxIUM

April 2022 - June 2022

SWE Intern

Buffalo Grove, IL

- Contributed to the development of the FastFind Carousel, a project that increased the number of pharmaceutical SKUs by 60% through the use of RxWorks software and the .NET framework
- Shadowed senior developers in their daily tasks, participating in interviews, code reviews, and meetings
- Learned fundamentals of test-driven development and the importance of documentation and organization

Professional Fortnite Player

2020 - 2021

Player

Virtual

- Ranked as high as top 25 in the North-America-East Region of Fortnite, a game with 30 million daily players
- Earned over \$9,000 in prize money, placing as well as 2nd in an open tournament with over 100,000 competitors
- Demonstrated adaptability, strategic thinking, and motor skills in fast-paced, competitive gaming environments

PROJECTS

Mosaic Builder (C++, GDB)

2023

- Developed a PhotoMosaic generator, using the KDTree data structure and nearest neighbors algorithm to efficiently search for the closest tile of average colors in a HSLA three-dimensional space

Web Scraping Recipe Finder (React, BeautifulSoup, Git)

2023

- Built a web scraping web app that took a list of ingredients as input and output recipes and steps

RELEVANT COURSEWORK

Data Structures, Discrete Structures, Software Design Lab, Linear Algebra, Technology & Management Seminar, Computer Architecture, Intro to CS I and II, Numerical Methods, Physics I and II

ACTIVITIES

Club tennis team, Climbing club, ACM, Illinois Solar Decathlon, Biokind Analytics, SIGPwny, MechMania