Yuri Batan

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EDUCATION

The Ohio State University — Columbus, OH
*BS Computer Science and Engineering, Minor in Business, IBE-SI, Morrill Scholar, **3.8** GPA* — *May 2026*

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, C/C++, MATLAB, HTML/CSS
Frameworks: PyTorch, PyDriller, NetworkX

EXPERIENCE

Software Engineering Fellow — July 2024 – Present
Headstarter — *Remote*
- Built 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, StripeAPI,with 98% accuracy as seen by +1000 users
- Developed projects from desing to deployement leading 4+ engineering fellows using MVC design patterns
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git and microservice patterns

AI/ML Research Intern — May 2024 – Present
National Science Foundation — *Columbia, Missouri*
- Implementing **deep learning models** using PyTorch for bugs and security vulnerability detection.
- Leveraging **PyDriller** to mine temporal code changes and vulnerability data from GitHub repositories, creating a **dataset** for **training** and **evaluating** machine learning models.
- Utilizing NetworkX library to perform **graph matching** and **combine code versions** for change analysis.
- Exploring image-based approaches using **Siamese neural networks** for vulnerability detection.
- Implementing evaluation metrics (Accuracy, Precision, Recall, F-Measure) to **assess model performance**.

IT Student Analyst — Aug 2023 – Present
Office of Technology and Digital Innovation (OTDI) at The Ohio State University — *Columbus, OH*
- Deliver support to user's of Ohio State software, including students, faculty, and staff, through IT channels
- Skilled in troubleshooting issues like password assistance, multi-factor authentication, and computer problems.
- Work distribution: **80%** phone support, **20%** dispatch queue follow-up, addressing about 5 clients per day.

Founder of Youth Emerging Leaders Program — June 2021 – Aug. 2021
Gateway Arch National Park — *St. Louis, MO*
- Collaborated with the Head of Volunteering at the Gateway Arch Park Foundation to **develop** and **implement** a future volunteer program tailored to teenage participants of underrepresented communities in Saint Louis
- **Researched** the park's operations and conducted comparative **analysis** of volunteer programs in other parks
- **Implemented** a recruitment **strategy** to attract and engage volunteers from St. Louis high schools

RELEVANT COURSEWORK AND INVOLVEMENT

Morrill Prominence Diversity Scholar

- Program dedicated to **creating leaders** of civil engagement and social justice, fostering diversity, equity, and inclusion both on campus and in the wider community. Awarded **full-tuiton scholarship** by Office of Diversity

PROJECTS

EFORGE | *JavaScript, JSON, HTML/CSS*
- **Developed** a Chrome extension that allows users to store email templates at one click away
- Developed an effective **business model**, through conducting research on **end users** and defining the extension's **value proposition**
- Awarded **"Best Business Model"** in Ohio State's Final Software-Innovation Pitch Competition

Buckeye Blackout | *C/C++*
- **Developed** a fun, interactive, and informative game to **replace** Ohio State's boring student safety modules
- **Created** for a Proteus Microcontroller, utilizing Ohio State's **Proteus Library**.
- Recognized as **best concept** by Ohio State's engineering department.