

PETER YURKOVICH

941-286-6141 ◇ peteryurkovich1@gmail.com ◇ peteryurkovich.com

EDUCATION

Virginia Tech, Transportation Infrastructure and Systems Engineering *Blacksburg, VA*
Masters of Science in Civil Engineering **May 2022**

Thesis: RSU-Based Intrusion Detection and Autonomous Intrusion Detection Systems

Bachelors of Science in Civil Engineering **Spring 2020**

Minor in Computer Science

EXPERIENCE

Full Stack Developer, Accrisoft

July 2022 - Present

- Jointly spearheaded a comprehensive rewrite of a financial system for a total solution SaaS managing hundreds of millions of dollars worth of financial data.
- Developed complex financial systems such as recurring invoicing, installment payments, aging, deferrals, and sku-based automation.
- Designed accounting reports to facilitate efficient financial data analysis and decision-making.
- Engineered new frontend user experiences using Vue to improve user interaction and satisfaction.
- Developed robust and scalable API calls, sustainable backend PHP code, and efficient database structures for system optimization.
- Took lead in project management through sprint planning, deadline and timeline management, and efficient task allocation for developers.
- Introduced and promoted best practices such as the use of foreign keys, Vue Composition API, and more, to drive code quality and efficiency.

Research Assistant, Virginia Tech

May 2020 - December 2021

- Developed a simulation of a fully autonomous intersection for self driving cars to model cyber-attacks and their impact.
- Simulated the impact of connected vehicle market penetration on vehicle density.
- Modeled industrial machining and manufacturing processes to identify and reduce waste.

PROJECTS

Pocket Fives

- Utilized Nuxt to create a cooperative sprint poker experience to help point difficult to decide stories.
- Used Github OAuth to validate users, Liveblocks to connect users for live updating results, and Tailwind for styling.

Adversarial Attacks Against Deep Reinforcement Learning

- Designed and analyzed a novel FGSM-Based attack against state-of-the-art alternatives on deep reinforcement learning algorithms and defenses.

TECHNICAL STRENGTHS

Programming

- Typescript, Vue, Nuxt, PHP, Python (Django, TensorFlow, NumPy, pandas), C++, and C.
- Database Design, Web Development, Networking, Machine Learning, Deep Reinforcement Learning, API development, REST, and git

Software And Tools

- MySQL, PostgreSQL, Linux, WSL, Redis, Blender, Illustrator, Premier, and LaTeX

Simulation and Analysis

- Matlab, R, VBA, Omnet++, and VISSIM