Patrick Kuzdzal

Education

Boston University — Boston, MA
Master of Science in Computer Science, Specialization in Cybersecurity — *Sep. 2023 – Dec. 2024*

Boston University — Boston, MA
Bachelor of Arts in Computer Science, Minor in Archaeology — *Aug. 2019 – May 2023*

- GPA: 3.79 | Dean's List Fall 2019 – Spring 2023

Work Experience

Graduate Teaching Fellow — Sep. 2024 – Dec. 2024
Object-Oriented Software Principles and Design — *Boston University*

- Collaborated with the professor to enhance the learning experience for a cohort of approximately 100 master's students, providing guidance on Object-Oriented Programming concepts, debugging techniques, and best coding practices

Undergraduate Teaching Assistant — Sep. 2021 – May 2024
Data Structures — *Boston University*

- Led weekly lab sessions, hosted office hours, and worked to reinforce core data-structure concepts to students
- Designed and implemented an automated grading system, significantly reducing grading time and improving efficiency for approximately 2,400 students

Software Engineer Intern — June 2022 – Aug. 2023
Verisk — *Boston, MA*

- Automated data collection and modification in distributed systems using VMware's cloud platform, significantly reducing retrieval time for key statistics across 1,200+ company clients
- Streamlined server deployment and configuration for Verisk's risk modeling platform using Ansible and Packer, saving approximately 4 hours of manual configuration per deployment

Projects

f1tenth | *Autonomous Car Racing* — Jan. 2024 – Dec. 2024

- Collaborated with a team to design, assemble, and program a car leveraging LiDAR-based localization for optimal path-finding and high-speed navigation around a track
- Deployed software written in Python using Docker for containerized simulation and testing, ensuring a reproducible and scalable development environment

b0nes | *Third Party Assistance Software* — Aug. 2023 – Aug. 2024

- Developed application to simulate user input patterns, removing recoil by a factor of 99% in the popular game Rust
- Remains undetected by Easy Anti-Cheat EOS among 50 active users

Highway Patrol | *BostonHacks* — Nov. 2022

- Engineered machine learning model to detect visual signs of impaired driving, integrated into a full- stack web application
- Awards: Innovating with AI

Friendable | *BostonHacks* — Nov. 2021

- Pioneered a software to algorithmically match users, and provide personalized group, event, and restaurant recommendations to foster community and mental health
- Awards: Best Community Track Hack | Best Use of Google Cloud | Best Use of Twilio API

Mask Detect | *BostonHacks* — Nov. 2020

- Spearheaded a team that implemented a custom-trained machine learning model to detect and notify users of improper mask etiquette
- Awards: Best Smart Home Track | Best Use of Google Cloud - Use of any Google Cloud Product | Best Use of Google Cloud - COVID-19 Hackathon Fund | Best Use of Twilio API

Technical Skills

Languages: Python, Java, C/C++, HTML/CSS, JavaScript
Frameworks/Libraries: React, Flask, Dear ImGui, AWS, VMware, Microsoft Azure
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, CodeVirtualizer, Ansible, Packer, Jenkins