Jack Kenney

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EDUCATION

M.S. Computer Science, University of Massachusetts Amherst *September 2020 – May 2022*
Bay State Fellow, GPA 4.0

B.S. Computer Science, University of Massachusetts Amherst *September 2015 – May 2019*
Commonwealth Honors College, Magna Cum Laude, GPA 3.904

EXPERIENCE

KDL, CICS, UMass Amherst — ***Graduate Research Assistant*** *Jan 2021 - Present*

- Designing software package for nonparametric causal effect estimation using Gaussian Processes.
- Researched metrics for robustness of reinforcement learning agents.
- Performed causal analysis of driver behavior during severe weather events in partnership with the CASA Engineering Research Center.

MathWorks, Natick, MA — ***Engineer*** *Sept 2019 - Aug 2020*

Designed and developed microservices in Go and Docker for efficient, scalable cloud systems that afford load balancing to ensure customer success. Highlights include concurrent programming, containerized workflows, debugging, and thorough unit testing.

UMass Amherst — ***Mobile App Developer*** *Jan 2019 - Sept 2019*

Created accessible cross-platform mobile application using ReactNative to guide people around campuses using crowd-sourcing model and ArcGIS mapping. Team was awarded $10,000 at HackUMass V for Campus Accessibility Challenge.

iMedia Solutions, Dartmouth, MA — ***Full-Stack Development Intern*** *Sept 2014 - May 2015*

Developed full-stack web applications with JavaScript, Node.js, socket interactions, and MySQL databases on Linux servers. Built **L**inux **A**pache **M**ySQL **P**HP stacks for Wordpress applications.

PROJECTS

Bolete Filter Mobile App — *React Native, TypeScript* *github.com/BoleteFilter*

The Western Pennsylvania Mushroom Club's *Bolete Filter,* a popular mycology resource, recreated as an offline-capable cross-platform mobile application using React Native.

Gnome Shell Automatic Dark Theme — *GJS* *github.com/JackKenney/gnome-true-color-invert*

A Linux Gnome Shell extension programmed to invert window color while preserving hue.

RESEARCH

Kenney, J., Valcore, J., Riggs, S., & Rietman, E. (2019). "Deep Learning Regression of VLSI Plasma Etch Metrology." arXiv preprint arXiv:1910.10067

SKILLS

Business Agile, Teamwork, Effective Communication Skills, Technical Writing, Time Management

Programming Clean Code, C++, Git, Golang, JavaScript, Julia, Linux, Python, SQL

Theory Data Structures, Algorithms, Calculus, Linear Algebra, Statistics

Arts Ceramic Sculpture, Guitar, Bass, Piano