Thomas Kade

717-824-0580 | tj.kade@richmond.edu | linkedin.com/in/tj-kade | github.com/jefferson258

1005 Roesser Drive, Lancaster PA, 17601

EDUCATION

University of Richmond

- B.S. in Computer Science and B.S. in Physics
- Current Cumulative GPA: 3.52
- Dean's List: Fall 2019
- Relevant Coursework: Algorithms, Data Structures, Music Informatics, Discrete Structures, Software Systems Development, Computer Organization, Database Systems, Linear Algebra, Calculus III

TECHNICAL SKILLS

Languages: C++, C#, Python, Java, Perl, Swift, HTML, XML, CSS, Shell Script Developer Systems: Azure, Kubernetes, Docker, Git, Linux, Unix Terminal, LATEX

EXPERIENCE

CarMax

Machine Learning Engineering Intern | Python, Azure, SQL, Docker

June 2022 – August 2022

Expected Graduation: May 2023

Richmond, VA

- Productionized machine learning model used in car recommendations system
- Designed web application for testing machine learning models used for personalization
- Implemented GUI to edit visitor-click data in Azure Cosmos databases in real-time

Software Engineering Intern | Python, Linux, Perl

May 2021 – August 2021

CommScope, Inc.

• Improved functionality of a Command Line Interface by automating frequently-used processes

Suwanee, GA

- Used Grep and Sed to identify issues, while using Python, Perl, and Shell Script to create solutions
- Worked to create a diverse test suite for new features

Computer Science Research Assistant $\mid C++, XML$

May 2020 – July 2020

University of Richmond

Richmond, VA

- Extended a 2D robotic motion planning program to work in three dimensions over terrains
- Developed probabilistic roadmap algorithms as a way to plan robot paths in C++
- Used XML to create a variety of testing scenarios to score each method based on speed and accuracy

Projects

Machine Learning in Condensed Matter Physics | Python

August 2022 - Present

University of Richmond

University of Richmond

Richmond, VA

- Researched possible materials to be used as semiconductors in high energy astronomy
- Identified stable compounds using a random forest model and symbolic regression
- Communicated results to research teams at multiple post-secondary institutions

President of Richmond Game Development Club | C#, Unity

November 2019 – Present

Richmond, VA

- Created games using the Unity physics engine
- Lead discussions towards the creation of new ideas for creative games
- Directed officers in recruitment of new members and planning of weekly meetings

AWARDS

3rd Place in HackDay 2020 | Swift

May 2020

International Information Technology University

Almaty, Kazakhstan

- Worked with a partner to design an iOS application using Swift
- Helped managers stay knowledgable of all of the store's transactions
- Implemented an easy-to-use interface for employees

Hobbies