

# Carl Stoker

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## Work Experience

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### KPMG

Providence, RI (Remote)

Associate, Security and IT Compliance

January 2024 - Current

- Develop and implement a Continuous Controls Monitoring (CCM) program to automate the detection of noncompliance with security and IT controls
- Collaborate with stakeholders to implement risk-based approaches to identify, assess, and mitigate security and IT compliance risks
- Analyze large structured and unstructured datasets in multiple domains to validate data integrity and ensure compliance with security and IT controls
- Create and present detailed reports and visualizations to help stakeholders analyze trends and detect noncompliance
- Perform control gap assessments and advise on compensating controls when security requirements cannot be met
- Integrate with various IT data sources and tools to enhance compliance monitoring and risk mitigation
- Perform security and IT control testing to validate compliance and identify weaknesses

### University of Rhode Island

Kingston, RI

Graduate Teaching Assistant

September 2022 - Current

- CSC 402: Programming Language Implementation, CSC 412: Operating Systems and Networks, and CSC 440: Design and Analysis of Algorithms
- Create and deliver programming assignments, solutions, and unit testing suites to cover a variety of topics
- Teach students algorithm design/analysis, computational complexity, programming language design/implementation, and operating system design
- Grade student projects, quizzes, exams, and other assignments

### KPMG

Remote

Intern, Change Management and Release Management

June 2022 - August 2022

- Facilitated the completion and closure of change requests in ServiceNow
- Helped reduce overdue change requests by 70% in collaboration with change requesters and implementers
- Produced reports for the Change Management team to monitor and improve change request completion times

## Education

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### University of Rhode Island

Kingston, RI

Master of Science, Computer Science

September 2023 - Current

### University of Rhode Island

Kingston, RI

Bachelor of Science, Computer Science

May 2023

Bachelor of Arts, Mathematics

- **Honors:** Summa Cum Laude

## Projects

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### Art Style Classification using Neural Networks (Artificial Intelligence)

Fall 2022

- Led a team that implemented, trained, and reported on the creation of a convolutional neural network to classify images by art style
- Analyzed research papers in artificial intelligence to determine methods for optimizing the model's hyperparameters
- Cleaned and preprocessed data to increase model accuracy and reduce loss

### Rust Universal Machine

Spring 2022

- Wrote a virtual machine in Rust which emulates a 32-bit system
- Implemented disk reading, memory allocation and management, register emulation, and instruction execution
- Wrote an assembler which allows users to write programs for the virtual machine
- Profiled the virtual machine to reduce computational complexity and resource usage
- Used profiling techniques to reduce runtime, making it the fastest in the course

## Skills

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### Data Analysis and Artificial Intelligence

Matplotlib, NumPy, Pandas, PyTorch, Scikit-learn, CNNs, RNNs, Reinforcement Learning

### Programming

Bash, C, C++, Java, Python, Rust

### Developer Tools

Eclipse, GDB, Git, GitHub, IntelliJ IDEA, Make, Microsoft VS Code, PyCharm, Unit Testing, Valgrind

### Office Suites

Google Docs, LaTeX, LibreOffice, Microsoft Office

### Operating Systems

GNU/Linux, Microsoft Windows

### Other

Docker, GNU/Linux, Microsoft Teams, Panaseer, Salesforce, ServiceNow, SharePoint, Skype, Slack, Trello