

# 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 implement risk-based approaches to identify, assess, and mitigate security and IT compliance risks
- Analyze large structured and unstructured datasets across multiple domains to validate data integrity and 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 improve 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 completion and closure of change requests in ServiceNow
- Helped reduce overdue change requests by 70% in collaboration with change requesters and implementers
- Produced reporting for Change Management team to monitor and improve change request completion times

### United States Naval Research Laboratory

Remote

Mathematics Research Intern

October 2021 - December 2021

- Analyzed graphs of varying complexity to assign objective scores to different features
- Read, reviewed, and discussed papers on the topic of graph complexity
- Implemented methods to automate the assigning of readability scores to graphs

### Berkshire Bank

Middletown, RI

SalesForce Champion, Financial Service Representative

September 2018 - August 2021

- Designed and created SalesForce reports for use by management and branch personnel
- Planned and lead training conference calls with management and branch personnel
- Coordinated with branch personnel to ensure complete knowledge of SalesForce functions
- Established, developed and retained relationships with existing and potential customers by offering and selling financial products and services including consumer and business deposit accounts, credit cards, and consumer loans

### Hampton Inn and Suites

Middletown, RI

General Manager

June 2010 - April 2017

- Managed all operations for a 95-room hotel in a prime travel destination area.
- Led, hired, trained, and supervised more than 50 employees within 6 departments.
- Planned and executed multiple large scale projects, including room renovations and upgrades to the hotel's internet infrastructure.
- Created and implemented new policies and procedures to improve efficiency and customer satisfaction.
- Created programs to generate reports, interpret financial data, and forecast revenue.

## 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

## Relevant Coursework

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<b>CSC 212 - Data Structures &amp; Abstractions</b>	C++, analysis of algorithms, stacks, queues, priority queues, trees
<b>CSC 305 - Software Engineering</b>	Unit tests, test-driven development, design patterns, agile software development
<b>CSC 310 - Programming for Data Science</b>	numpy, pandas, sklearn, data modeling, bias mitigation
<b>CSC 402 - Programming Language Implementation</b>	Grammar, parsing, AST construction, compilers, interpreters
<b>CSC 411 - Computer Organization</b>	Rust, analysis of assembly, computer architecture, performance tuning
<b>CSC 412 - Operating Systems and Networks</b>	Bash, C, C++, processes, threads, interprocess communication, virtual memory
<b>CSC 440 - Design and Analysis of Algorithms</b>	Analysis of algorithms, computational complexity, dynamic programming
<b>CSC 461 - Machine Learning</b>	pytorch, supervised learning, clustering, logistic regression, neural networks
<b>CSC 541 - Cryptology</b>	Cryptanalysis, basic number theory, digital signatures, DES/AES
<b>CSC 592 - Algorithms for Big Data</b>	Big Data, clustering algorithms, sublinear algorithms
<b>CSC 592 - Human-Computer Interaction</b>	Human-Computer interaction, crowdworking, interface design
<b>ELE 569 - Computer Systems for Modern Cloud Computing</b>	Cloud computing, system design and optimization, massively parallel systems

## 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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<b>Data Analysis and Artificial Intelligence</b>	Matplotlib, NumPy, Pandas, PyTorch, Scikit-learn, CNNs, RNNs, Reinforcement Learning
<b>Programming</b>	Bash, C, C++, Java, Python, Rust
<b>Developer Tools</b>	Eclipse, GDB, Git, GitHub, IntelliJ IDEA, Make, Microsoft VS Code, PyCharm, Unit Testing, Valgrind
<b>Office Suites</b>	Google Docs, LaTeX, LibreOffice, Microsoft Office
<b>Operating Systems</b>	GNU/Linux, Microsoft Windows
<b>Other</b>	Docker, GNU/Linux, Microsoft Teams, Panaseer, Salesforce, ServiceNow, SharePoint, Skype, Slack, Trello