Jack Rogerson

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EDUCATION

Clark University, Worcester MA - Expected May 2024
M.S in Information Technology, Concn: Cybersecurity
B.A in Computer Science, Minor in Management
Overall GPA **3.89/4.0**, CSCI GPA **4.0/4.0**

Relevant Coursework:
Data Structures • Computer Organization • Algorithms
Programming Languages • Database Systems
Networking • Web Development • Automata Theory

SKILLS

Advanced:	Intermediate:	Knowledgeable:
Virsh | Linux | Unix | Java | HTML/CSS | Node.js | Bash | TLS	.NET | MongoDB | AWS | vi	React | OCaml | LDAP
TCP & UDP | Git | Python | JavaScript | jQuery | MacOS | SQL	Selenium | Network Design	Django | Docker | Matlab
Virtualization | pfSense | NFS | Wireshark | tcpdump | VPNs	DNS | Arduino | PHP	C | Telerik | Kubernetes

WORK EXPERIENCE

Software Developer, *Market Information System & FINRA - Nasdaq* **June 2022 - Present**
- Responsible for implementing new features of FINRA TRAQS via frontend and backend implementations.
- Develop automated testing solutions to support regression testing of web applications.

Academic Technology LMS DevOps, *Information Technology Services - Clark University* **May 2021 - Present**
- Develop and maintain the Clark University Moodle Learning Management System Deployment.
- Use various tools on the LAMP stack, including: PHP, MariaDB MySQL, CentOS, and Python.
- Collaborate with other DevOps and managers to perform updates and testing operations.

System Administrator, *Department of Computer Science* **July 2021 - Present**
- Configure, maintain, and upgrade 8+ Linux servers on physical and virtualized hosts.
- Deploy applications including: Apache, LDAP, GitLab, Splunk, & PASS. Provide end-user support.
- Maintain Linux partitions on 24 university-issued lab computers.

Teaching Assistant, *Department of Computer Science* **September 2020 - May 2023**
- Helped a collective 100+ students develop algorithmic thinking and troubleshooting skills.
- Maximized learning and hosted bi-weekly sessions for educating students using hands-on instructional strategies.
- Oversaw classes of up to 65 students in Computer Science Python & Java courses.

Autograder Developer, *Department of Computer Science* **December 2020 - May 2023**
- Created teaching assistant solution samples to newly developed assignments.
- Developed and maintained autograder software/programs for use with internal and public grading solutions.
- Analyzed and refactored thousands of lines of code to increase efficiency, maintainability, and accuracy.

SIGNIFICANT PROJECTS

Course Lowdown, *Node.js | JavaScript | MongoDB | AWS EC2*
- A Node.js web app allowing students to leave reviews about individual courses taken at the collegiate level.
- Uses MongoDB database to allow for multiple colleges, courses, and reviewers. All interactions via a self-designed UI.

Percolation, *Java*
- Implementation of N x N grid used for statically modeling percolation thresholds of M randomly opened sites.
- Uses Weighted Quick Union Nodes to determine connectedness. 2D arrays graphically represent site characteristics.

CLI Yahtzee, *Python*
- Implementation of multiplayer Yahtzee created with Python. Players interact with the game via the command line.

LEADERSHIP

Clark University Competitive Computing Club, *President* **July 2021 - Present**
- Responsible for coordinating weekly programming events and challenges in collaboration with other student leaders.

Social Media Coordinator, *Director - Department of Computer Science* **August 2019 - Present**
- Responsible for developing CS Dept. social media strategies and creating content.

Clark University Collegiate DECA, *Technical Operations Officer* **August 2020 - Present**
- Oversee technical deployments and introduce new platforms. Recommend SEO optimization strategies.