

Younes Yassine

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Willing to Relocate | U.S. Citizen

PROFESSIONAL SUMMARY

Software Engineer pursuing a Master of Science in Computer Science with experience designing scalable backend systems, distributed caching solutions, cloud infrastructure, automation frameworks, REST APIs, and full-stack web applications. Proven ability to improve system performance, reliability, and operational efficiency through software development, cloud technologies, distributed systems, and infrastructure automation. Strong foundation in algorithms, data structures, object-oriented programming, software engineering principles, and cloud-native development.

EDUCATION

University of Colorado Boulder

Master of Science in Computer Science

Boulder, CO

Expected May 2027

University of Colorado Denver

Bachelor of Science in Computer Science

Denver, CO

May 2025

PROFESSIONAL EXPERIENCE

Software Engineer Intern

AMD

Jan 2026 – May 2026

Austin, TX

- Reduced backend data retrieval latency by **70%** through optimization of distributed caching architecture and Redis data-access strategies.
- Diagnosed and resolved a critical memory leak within the Redis caching layer by improving key expiration and eviction mechanisms, increasing application stability and preventing service degradation.
- Refactored backend automation frameworks and service components, improving scalability, maintainability, and test execution efficiency across engineering workflows.
- Supported deployment and scaling of hybrid cloud infrastructure utilizing Microsoft Azure and Kubernetes clusters across cloud and on-premises environments.
- Performed root-cause analysis, debugging, profiling, and performance tuning in high-concurrency distributed systems to identify bottlenecks and improve application reliability.

Full Stack Developer

Alliance Française

Aug 2024 – May 2025

Denver, CO

- Designed and developed a full-stack database management platform using React, Django, PostgreSQL, REST APIs, and modern web technologies.
- Implemented advanced filtering, searching, and querying functionality enabling efficient retrieval and segmentation of large datasets.
- Built secure RESTful API endpoints supporting frontend-backend communication, data retrieval, reporting workflows, and business operations.
- Collaborated with stakeholders throughout the software development lifecycle to gather requirements, design solutions, and deliver production-ready functionality.

Student Research Assistant – Machine Learning Phishing Detection

University of Colorado Denver

Aug 2024 – Dec 2024

Denver, CO

- Developed and evaluated machine learning models for phishing email classification using natural language processing and text-based feature extraction techniques.
- Performed data preprocessing, feature engineering, model training, and validation on large email datasets.
- Implemented supervised classification algorithms to identify phishing attacks and distinguish malicious communications from legitimate emails.
- Analyzed model performance using accuracy, precision, recall, and other evaluation metrics to improve detection effectiveness.

Systems Engineer Intern

OGERO

May 2023 – Aug 2023

Beirut, Lebanon

- Provisioned and administered VMware ESXi virtual machines supporting internal testing, development, and infrastructure validation environments.
- Developed Python and Bash automation scripts that reduced manual system health reporting effort by **40%**.
- Optimized PostgreSQL database performance through data cleanup, query improvements, and removal of redundant records.
- Implemented monitoring and alerting solutions for server latency, storage utilization, and disk I/O performance, enabling proactive issue detection and incident response.

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, JavaScript, SQL, HTML, CSS

Frameworks & Libraries: Django, React, Spring Boot

Cloud & Infrastructure: AWS, Microsoft Azure, Kubernetes, Docker, Linux, VMware ESXi

Databases & Storage: PostgreSQL, Redis, Relational Databases, Database Design, Data Modeling

Developer Tools: Git, GitHub, GitHub Actions, Jenkins, Jira, Ansible

Testing & Automation: Pytest, Selenium, K6, Unit Testing, Integration Testing, Test Automation, CI/CD Pipelines

Software Engineering Concepts: Object-Oriented Programming, Algorithms, Data Structures, Distributed Systems, Networking, System Design, REST APIs, Agile/Scrum, SDLC