

David Miserak | Résumé

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Education

Vermont Technical College

Master of Science (MSc) in Software Engineering

Vermont Technical College

Bachelor of Science (BSc) in Software Engineering

Experience

Vermont Data Systems

DevOps Consultant

Remote

11/24 - Present

Company Description: Vermont Data Systems is a software consultancy that offers services to clients looking to improve, create, and/or manage their software systems.

Responsibilities:

- Architect, set up, and maintain infrastructure and development environments.
- Lead the design and implementation of CI/CD pipelines and DevOps practices.
- Collaborate with development teams to ensure smooth and secure application integration and deployment.
- Oversee on-call management, troubleshooting, and system administration tasks.
- Implement best practices for automation, GitOps, and monitoring.

GDMS (formerly Progeny)

Advanced Software Engineer

Remote

01/22 - 10/24

Company Description: General Dynamics Mission Systems is an American publicly traded aerospace and defense corporation.

Responsibilities:

- Developed new software components to meet program needs.
- Integrated COTS and GOTS tools.
- Unit tested software components for integration in larger systems.
- Conducted software component integration to ensure end-to-end system functionality.
- Researched, identified, and evaluated new technologies for adoption by the US Navy.
- Built, integrated, and migrated software applications and components for the community cloud environment.

Accomplishments:

- Introduced a Hypervisor-based cluster to simulate a full submarine system for end-to-end testing for developers.
- Converted the legacy audit system using cloud technologies to improve maintainability and scalability. This allowed the system to handle large bursts (1 GiB/second) of data that were previously unmanageable.

Vermont Data Systems

Software Consultant

Burlington, VT

10/17 - 01/22

Company Description: Vermont Data Systems is a software consultancy that offers services to clients looking to improve, create, and/or manage their software systems.

Responsibilities:

- Collaborated with various stakeholders to determine software requirements.
- Created high-level product specifications and design documents.
- Guided and assisted the development teams.
- Troubleshot and resolved issues with coding or design.
- Presented regular progress reports and set goals.

Accomplishments:

- Consulted on a 70 million USD project for a benefit system to be implemented by 3 state governments.
- Automated happy path testing for a large-scale project to speed up a project that was behind schedule by 6 months.
- Designed and programmed a tool for retirement planning and stock analysis using end-of-day tick data.

American Express

Sr. Software Engineer (Contractor)

Phoenix, AZ

08/16 - 10/17

Company Description: The American Express Company is a multinational financial services corporation.

Responsibilities:

- Provided technical leadership of internal and external team members.
- Integrated applications into existing enterprise systems.
- Determined the root cause for complex software issues.
- Worked in close partnership with cross-functional teams, clients and management.

Accomplishments:

- Collaborated with the Hewlett-Packard Enterprise (HPE) Security Application Team on file encryption in a resource constrained and heterogeneous computing environment for Voltage 5.0 and integration with Ab Initio systems.
- Independently identified and engineered a solution (in 6 weeks) for a critical project that had been derailed for 18 months by a team of 11 contractors.
- Managed a team of 2 junior programmers and implemented a real-time transaction encryption system used by over a dozen external clients.

Human Genetics and Genomics Lab at UVM

Software Engineer

Burlington, VT

12/15 - 08/16

Lab Description: The Human Genetics and Genomics Lab at UVM is a research laboratory focused on Omics research for virus-caused cancer, addiction, and Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS).

Responsibilities:

- Developed databases to compile vast amount of information (gene expression profiling and protein sequences).
- Consulted with other scientists and researchers to analyze data sets.
- Maintained laboratory documents.
- Attended events and conferences.
- Wrote grant proposals.

Accomplishments:

- Created a web tool to display Viral Insertion Polymorphisms (VIPs) and their interaction with the human genome.
- Planned, designed, and built a 20 node computing cluster for analyzing large data sets of genomic information.

Company Description: The Vertek Corporation is a provider of telecommunication, security, and software services to numerous Managed/Communication Service Providers (CSPs/MSPs) throughout the United States and Canada.

Responsibilities:

- Worked with clients and cross-functional departments to communicate project statuses and proposals.
- Analyzed data to effectively coordinate the installation of new and existing systems.
- Monitored system performance.
- Developed and executed project plans.
- Administrated computer networks.
- Communicated key project data to team members.

Accomplishments:

- Oversaw and coordinated the effort to complete over 1,200 project sites.
- Created a software tool to detect misconfigured retail client systems critical to payment processing. This prevented the client from losing \$400,000 per day in revenue across 100 affected sites.

Certifications

Issuer	Certification	Year
AWS	Cloud Technology Consultant	2024
IBM	DevOps and Software Engineering Professional	2024
Meta	Front-End Developer Professional	2024
Meta	Back-End Developer Professional	2024
C++ Institute	C Certified Associate Programmer	2019

Specializations

Issuer	Specialization	Year
IBM	People and Soft Skills	2024
IBM	AI Foundations for Business	2024
Meta	React Native	2024
UCI	Programming with Go (Golang)	2024

Skills

General

- ██████ AI
- ██████ Agile/Scrum
- ██████ BDD/TDD
- ██████ CI/CD
- ██████ Data Science
- ██████ DevOps
- ██████ Linux/Unix
- ██████ ML
- ██████ Microservices
- ██████ RESTful APIs
- ██████ Soft Skills

Programming

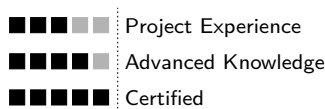
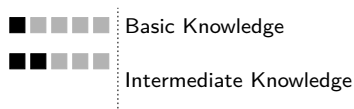
- ██████ Bash
- ██████ Golang (Go)
- ██████ HTML/CSS
- ██████ Java
- ██████ JavaScript
- ██████ Python
- ██████ R
- ██████ SQL
- ██████ Scala
- ██████ TypeScript
- ██████ YAML

Tools

- ██████ Ansible
- ██████ Apache Spark
- ██████ AWS
- ██████ Docker/K8s
- ██████ GCP
- ██████ Git
- ██████ Hadoop
- ██████ JMeter
- ██████ Terraform

Frameworks/Libraries

- ██████ Django
- ██████ FastAPI
- ██████ Flask
- ██████ MinIO (S3)
- ██████ Next.js
- ██████ NumPy
- ██████ Pandas
- ██████ React.js
- ██████ React Native



More skills and associated certifications can be found on LinkedIn: [linkedin.com/in/miserak](https://www.linkedin.com/in/miserak)