Michael Braverman

DevOps/Cloud Engineer

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Summary

I am a DevOps/AWS Cloud Engineer and a Software Engineer Generalist with a strong passion for programming in Python, Go, and Rust. My expertise lies in automating workflows, monitoring systems, and optimizing costs. I enjoy solving complex challenges, continually expanding my skill set, and delivering innovative, high-impact solutions that propel business success and efficiency.

Experience

International HFT Hedge-Fund   2023-10 — Present
DevOps/Cloud Engineer

- Collaborated with my team to automate the deployment and management of network infrastructure across multiple cloud platforms, including **AWS**, using **Terraform** and **Pulumi** to enhance efficiency, scalability, and time to market.
- Utilized **AWS CloudWatch**, **Kubernetes**, **Zabbix**, **Prometheus**, **Grafana**, **VictoriaMetrics** and the **ELK Stack** to monitor a diverse infrastructure that includes cloud VMs, containerized workloads, high-performance bare metal servers, and networking equipment.
- Carried out proactive incident response while consistently achieving a response time of under 30 minutes for critical trading infrastructure during **on-call** duties.
- Designed and developed tools in **Python** and **Go** to integrate with **AWS Cost Explorer** and **CloudWatch APIs**, automating the delivery of daily expense and resource consumption reports to Slack. This initiative provided teams with real-time insights into cloud costs, facilitating effective cost management and identifying opportunities for optimization within AWS.

CentrInform   2022-11 — 2023-10
DevOps Engineer
🔗 https://center-inform.ru

- Oversaw the operation and deployment lifecycle of more than **40 Java/Go microservices** handling **2–12k RPS**, while ensuring high availability and consistent performance within a Kubernetes environment.
- Ensured **99.99% SLA uptime** by managing SRE on-call responsibilities and utilizing tools such as **Zabbix**, **Grafana** and **Prometheus** for monitoring and issue diagnostics;
- Managed an on-premise infrastructure consisting of **~100 virtual machines** and **20 bare-metal servers**, deploying technologies including **GitLab CI**, Kubernetes, Minio, Consul, Vault, ELK, HAProxy, Patroni, PostgreSQL, and ClickHouse;
- Built Kubernetes clusters from scratch on bare-metal servers using **Kubespray**, adhering to best practices for scalability and reliability;
- Implemented **IaC** and CI/CD pipelines, contributing to the migration to **GitLab CI + Argo CD** while automating infrastructure management with **Terraform** and **Ansible**;
- Led a comprehensive infrastructure overhaul, rebuilding it using **Terraform**, **Ansible**, **Consul**, and **Vault**, significantly improving scalability, security, and efficiency;
- Created an **infrastructure diagram generator** using Ansible: github.com/mbrav/ansible-inventory-diagram.
- Developed custom **Rust-based tools** to automate workflows: github.com/mbrav/gitraider.

Banks Soft Systems (BSS)   2022-04 — 2022-11
Release Engineer
🔗 https://spitch.ai/

- Reduced release build and testing pipeline times by over **3X**, significantly improving development efficiency;
- Integrated automated processes for building and testing Docker containers with varying **NLP models** and **Linux distribution configurations** (RHEL, CentOS, RedHat, Ubuntu, Rocky) using **Bash**, **Python**, **Ansible**, and **GitHub Actions**;
- Managed **CVE alerts** and addressed security vulnerabilities in Docker images by leveraging security scanning tools to ensure compliance with regulatory requirements for banking software;
- Conducted code reviews for an AI voice assistant project, ensuring adherence to best practices, code quality, and functionality.

Genesis Block   2021-11 — 2022-03
Python and Blockchain Developer
🔗 https://genesisblock.ru/eng/

- Designed and developed APIs using **Flask** and **FastAPI** frameworks in Python, adhering to best software development practices while collaborating with a small team of 5 members;
- Maintained and supported projects integrating **smart contracts** and other innovative blockchain solutions, ensuring stability and performance;
- Worked closely with development teams and international clients to ensure precise understanding and successful implementation of project requirements.

Education

Parsons School of Design   2014 — 2018
Design and Technology   Bachelor's degree
🔗 https://www.newschool.edu/parsons/bfa-design-technology/

Creative applications of programming in design: Javascript, node.js, C++, Arduino, Raspbery Pi and Linux

The New School   2015 — 2019
Philosophy   Bachelor's degree
🔗 https://www.newschool.edu/

Studied Continental Philosophy, Formal Logic, Epistemology, Ancient Greek Philosophy and German Idealism.