

# MICHAEL GRINGAUZ

Toronto, Ontario - [michael.gringauz@gmail.com](mailto:michael.gringauz@gmail.com) - (647) 974-3846  
[linkedin.com/in/michael-gringauz](https://linkedin.com/in/michael-gringauz) - [github.com/mgauz01](https://github.com/mgauz01)

As a versatile professional in Backend Development, DevOps, and Site Reliability Engineering (SRE), I specialize in architecting tailored solutions across diverse client needs. My expertise spans programming languages, frameworks, and cloud technologies, with a primary focus on backend development. Proficient in Infrastructure as Code (IaC), continuous integration, incident response, and automation, I bridge the gap between development and operations. My distinctive programming prowess delivers innovative solutions for complex challenges. Committed to operational excellence, I optimize system reliability, scalability, and performance, making me an ideal candidate for Software Engineer, DevOps Engineer, and Site Reliability Engineer roles.

## TECHNICAL SKILLS

<b>Data Solutions:</b>	PostgreSQL, MySQL, Data Lakes, MongoDB, GraphQL, PySpark, Hadoop, Spark Hive, AWS EMR, RDS, Aurora, ElastiCache, Data Science Workflows
<b>AWS Cloud &amp; OpenStack:</b>	AWS Lambda, S3, EC2 EMR, RDS, Kinesis Firehose, Terraform, CloudWatch, Glue, API Gateway, Elastic/OpenSearch, EKS (Kubernetes), ECS, Fargate
<b>Programming:</b>	Python 3, Java, JavaScript, Typescript, Go/Golang, SQL, Bash, Batch
<b>Operation Tools Proficiency:</b>	Jenkins, GitLab CI, GitHub Actions, Deployment pipelines, CI/CD automation, Prometheus, Elasticsearch, YAML, Unix/Linux, Docker
<b>Infrastructure as Code (IaC):</b>	Terraform, Ansible, CloudFormation, AWS CDK Python
<b>Frameworks:</b>	React.js, Angular > 7, Next.js, Vue.js, Jest.js, REST APIs, Selenium, Webdriver.io, Jupyter Notebooks
<b>Neural Networks:</b>	Tensorflow 2.X, Karas, AWS SageMaker, PyTorch, Sci-kit Learn, Deep Learning
<b>Machine Learning:</b>	Supervised Learning, Unsupervised Learning, RNN, KNN, CNN, SageMaker, NLP
<b>Tools and Methodologies:</b>	SDLC, Version Control Practices, ETL, Agile, Kanban, Jira, Confluence

## WORK EXPERIENCE

**Senior Software and SRE Engineer - Petco, San Diego, California (remote, contract)** 11/2022 - present

- Managed data migration using AWS Kinesis Firehose, achieving 100% real-time data sync from Django REST API to AWS S3.
- Accelerated AWS Lambda REST API development by 63% by building new endpoints via AWS API Gateway.
- Utilized Python CDK for AWS CloudWatch to establish robust monitoring/logging, generating 11,000 log files.
- Engineered a unique Python solution for collecting and analyzing Prometheus metrics and logs, enabling proactive automation and communication via email and chats.
- Created a router in Django which increased the number of endpoints in the application by 120%.
- Migrated pre-existing Django API architecture onto a GraphQL model, thus speeding up API responses by 14%.
- Wrote OpenStack Lambda function (FaaS) that would check VM cache size and clear it if needed.

**Backend and SRE Engineer - RenderSEO, Orange County, California (remote, contract)** 01/2022 - 10/2022

- Designed and implemented an AWS EKS solution, accelerating the company's service migration by 2 months.

- Optimized script for API interaction and data synchronization, resulting in a 300-line truncation for enhanced script efficiency.
- Utilized JavaScript to develop infrastructure, delivering JWT Token-protected information 1.4 times faster.
- Created JavaScript-based Lambda functions in response to various AWS events, such as changes to data in an S3 bucket, updates to a DynamoDB table, and incoming messages in an SQS queue.
- Redesigned Django serializes to accommodate the creation of 7 new data classes within the API.
- Used shared storage (OpenStack Cinder) to store daily log files across over a dozen VMs.

***Software Automation and Validation Engineer - Intel Corporation, Toronto, Ontario (contract) 06/2021 - 12/2021***

- Designed and programmed Python plugins for automation, boosting team testing speed by 47.7%.
- Created Python framework to simulate faults or errors in microprocessor behavior and to measure and analyze the power consumption of microprocessors under different workloads.
- Collaborated on Jira test item development, successfully resolving 100% of tickets related to various bugs through effective debugging over multiple weeks.
- Constructed a machine learning pipeline utilizing data to achieve a 76.82% accuracy in classifying various media items.

***Web and Big Data Developer - freelance 02/2019 - 05/2021***

- Leveraged the MERN stack to develop end-to-end websites, seamlessly integrating front-end and back-end functionalities.
- Enhanced website performance by strategically minimizing CSS and JavaScript code, resulting in a 14% improvement in site responsiveness.
- Utilized client data to generate insightful data charts, effectively enhancing user satisfaction by 6.97%.

## EDUCATION

***BrainStation Boot Camp | Data Science Diploma 2021***

***University Of Toronto | Statistics & Computer Science | Scholar 2019-2021***

## PROJECTS

***Hotel Review Sentiments NLP | Lead Data Scientist 2018***

- Developed a hotel quality classification system using reviews, achieving an accuracy of 75% or higher.
- Applied a comprehensive text analysis approach, including PCA, Count Vectorizer, Tokenization, lemmatization, and stemming, to visualize the top 20 positive review words.
- Evaluated machine learning models (KNN, Decision Trees, SVM) based on precision, recall, TPR, FPR, achieving an AUC score of 0.91

***24-Hour Hackathon | Machine Learning Engineer 2018***

- Employed data sets to develop and streamline recommendation systems for individuals consuming specific meals, showcasing the top 10 relevant meals.
- Created a predictive model with 80% accuracy to identify customers loyalty level.
- Utilized various metrics to design a Tableau dashboard, offering insights into the physical locations of restaurants across the U.S.