

# Gable Brown

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## SUMMARY

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A skilled Software Engineer with a Master's in Data Science, most recently developed an automated satellite network testing toolkit at Viasat. With a proven track record at Wells Fargo and Disney, I bring strong leadership, teamwork, and effective communication skills to innovative software development. Proficient in Python, Go, SQL, Bash, and more, I am well equipped for the dynamic projects at You.

## SKILLS

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- **Programming Languages:** Python, SQL, Bash, Go, JavaScript, Julia, C++, Rust, LaTeX, SAS, Java, R
- **Technologies & Tools:** Kubernetes, Docker, Terraform, Ansible, GitHub Actions, Airflow, Cloudflare Workers, AWS, OpenStack, PostgreSQL, MongoDB, Spark, PyTorch, TensorFlow, OpenCV

## EDUCATION

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**University of North Carolina at Charlotte** Aug 2019 — May 2021  
*Master of Science, Data Science* Charlotte, NC

**University of North Carolina at Charlotte** Aug 2017 — Aug 2020  
*Bachelor of Science, Computer Science* Charlotte, NC

## WORK EXPERIENCE

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**Senior Machine Learning Engineer** Feb 2024 — Present  
Mindblazer Remote, NC

- Trained and productionized a series of object detection and image classification models using PyTorch, Roboflow, and Meta-DETR to automatically verify store facings and shelving arrangements.
- Built and deployed a CI pipeline to create Software Bills of Materials (SBOMs) for projects, check them against vulnerability databases, produce internal audit reports, and automatically notify stakeholders about security threats and resolutions.
- Developed a RESTful API using Cloudflare Workers and itty-router-openapi for survey rendering and static asset management, and enhanced application performance and scalability by leveraging Cloudflare KV for asset management and error handling.

**Software Engineer** Nov 2021 — Nov 2023  
Viasat – Orchestration & Automation Remote, NC

- Spearheaded the development and maintenance of an automated portal for satellite access network testing using AWS Cloud, Kubernetes, and OpenStack, ensuring efficient hardware reservation and deployment processes with Ansible, Terraform, Airflow, and Jenkins integrations.
- Enhanced developer efficiency and facilitated seamless artifact generation by implementing GitHub Actions CI/CD pipelines using Go, Python, and Bash, resulting in accelerated project delivery to a modern cloud infrastructure.

**Software Engineer** Jul 2020 — Oct 2021  
Wells Fargo – Corporate Risk Remote, NC

- Designed an internal statistical toolkit using SciKit Learn, Pandas, Spark, PyTorch, and TensorFlow, which improved data analysis and model development for better decision-making.
- Built and deployed a telemetry logging data warehouse using PostgreSQL with rRPC integration and Python APIs, which improved incident management, performance optimization, and system health monitoring.

**Data Engineer** Jun 2019 — Jan 2020  
The Walt Disney Company – Parks, Experiences & Products Orlando, FL

- Designed and implemented reliable scripts and APIs to streamline and automate existing workflows, which increased productivity and reduced manual intervention.
- Compiled and conducted Python training sessions for SQL and SAS developers to facilitate their proficiency in Python programming and promote a cohesive technical environment.
- Engineered and delivered software development solutions to non-technical partners and executive leadership, communicating complex technical concepts clearly to lead to informed decision-making and project success.

## PROJECTS

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**Creator & Full-Stack Developer**, Regexle – Daily Regex Puzzle (<https://regexle.com>) May 2024

- Created a complex regex generation engine to dynamically produce patterns for Regexle, ensuring varied and challenging puzzles while validating and optimizing regex rules for performance and accuracy.
- Developed and maintained a Cloudflare Workers-based REST API using itty-router for handling game data and statistics, with secure SQLite database interactions to drive frontend visualizations.

## EXTRACURRICULAR ACTIVITIES

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**Vice President & Graduate Advisor**, Charlotte Area Robotics – UNC Charlotte Jan 2019 — Nov 2021

- Led and coordinated a diverse team of programmers, developers, and visionaries with expertise in various technical domains.
- Utilized Python and OpenCV to develop classifier models for object detection and automated avoidance, demonstrating proficiency in Computer Vision and Machine Learning techniques.