

# Gable Brown

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## SUMMARY

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 Youhave.

**PROGRAMMING** Python, SQL, Bash, Go, JavaScript, Julia, C++, Rust, L<sup>A</sup>T<sub>E</sub>X, SAS, Java, and R

## WORK EXPERIENCE

**Mindblazer** in Charlotte, NC

*Software Engineer*

Feb 2024 – Present

- Developed a RESTful API with Cloudflare Workers and itty-router-openapi for survey rendering and static asset management.
- Implemented dynamic survey rendering using Mustache, handling survey metadata and questions efficiently.
- Enhanced application performance and scalability by utilizing Cloudflare KV for asset management and error handling.

**Viasat** in Carlsbad, CA

*Software Engineer for Orchestration and Automation*

Nov 2021 – Nov 2023

- Spearheaded the development and maintenance of an automated portal for satellite access network testing, utilizing AWS, Azure, and Openstack, and ensuring efficient hardware reservation and deployment processes with Ansible and Jenkins integrations.
- Implemented GitHub Actions to enhance developer efficiency and facilitate seamless artifact generation, resulting in accelerated project delivery and improved collaboration

**Wells Fargo** in Charlotte, NC

*Software Engineer for Corporate Risk*

Jul 2020 – Oct 2021

- Designed and curated a powerful internal statistical toolkit employing SciKit Learn, Pandas, Spark, PyTorch, and TensorFlow, enabling advanced data analysis and model development for enhanced decision-making
- Successfully built and deployed a robust telemetry logging database in Oracle SQL, empowered by seamless gRPC integration with multiple highly efficient Python APIs, significantly improving data retrieval and processing capabilities

**The Walt Disney Company** in Orlando, FL

*Data Engineer for Parks, Experiences, and Products*

Jun 2019 – Jan 2020

- Designed and implemented reliable scripts and APIs, streamlining and automating existing workflows, resulting in increased productivity and reduced manual intervention
- Compiled and conducted Python training sessions for SQL and SAS developers, facilitating their proficiency in Python programming and promoting a cohesive technical environment
- Engineered and delivered software development solutions to non-technical partners and executive leadership, effectively communicating complex technical concepts in a clear and accessible manner, leading to informed decision-making and project success

**UNC Charlotte** in Charlotte, NC

*Hardware and Software Technician for Campus Makerspace*

Jan 2018 – Jun 2019

- Maintained a suite of 3D printers, laser cutter, CNC router, and other electronics equipment
- Designed and conducted workshops on specialized topics, such as Raspberry Pi implementation, Python development, 3D scanning exploration, and Arduino interfacing.
- Provided training to new and existing users on machine operations, safety, and program usage.

## EDUCATION

**University of North Carolina** at Charlotte, North Carolina

Master's of Science, Data Science

Aug 2019 – May 2021

Bachelor's of Science, Computer Science

Aug 2017 – Aug 2020

## PROJECTS

**Regexle** a daily crossword puzzle with regular expressions as the clues

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

## CAMPUS ACTIVITIES

**Charlotte Area Robotics** at UNC Charlotte

Graduate Advisor

Mar 2021 – Nov 2021

Vice President

Jan 2019 – Mar 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