# SABASTIAN HIGHTON

www.thehighton.com

(470) 505-8286 | sthighton@gmail.com

## SUMMARY

Summa Cum Laude graduate of computer science seeking a data analytics role. Over two years of data science in a university environment. Self-starter applying data analysis insight pipelines to real-world problems in multiple projects. Graduated a year and a half early as a co-author of conference accepted research utilizing data science.

## SKILLS

SQL, Excel, Python (Pandas, Numpy, Sci-kit Learn, Tensorflow, Matplotlib, JupyterLab), AWS Cloud (DynamoDB, S3, IAM, CDK, Lambda), JavaScript (Next, React), Windows, MacOS, Linux, Java

## PROJECTS

### Data Analysis on RNA Pairing Outcomes
- Cleaned and transformed data using Java, created an image of RNA bonding types, outputted data to an image file, then performed data analysis and ML in Python
- Used a convolutional neural network to determine likelihood of RNA pairing from the image files
- White paper has been accepted by IEEE SoutheastCon 2024 and will be published

### Personal and Portfolio Website - www.thehighton.com
- Hosts multiple projects integrating AWS Cloud (Lambda function) written in Python and a front-end written in Next.js and CSS
- Using AWS IAM to manage development accounts with Docker, CDK, S3, and CloudFormation handling CI/CD of Lambda function

### Live Automated Trading Agent
- Trading agent written in Python that connects to a live feed of BTC/USD via an API call
- Data cleaned using Numpy/Pandas and visualized using Matplotlib
- Buys, sells, or takes no action based on quality financial metrics and conditionals that ensure more stability in a volatile cryptocurrency market yielding a 1.33% return over 3 months

### Blockchain-Enhanced Information Sharing System
- Decentralized architecture application written in JavaScript/Solidity and connected to Web3 and Ethereum
- Data stored and secured using a testnet ethereum blockchain then read using JavaScript calls

## EDUCATION

University of North Georgia, Mike Cottrell College of Business                    Dahlonega, GA
**BS Computer Science**                    **GPA: 3.92/4.0**                    **December 2023**
Summa Cum Laude

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**EXPERIENCE**

University of North Georgia                                                       Dahlonega, GA
**National Science Foundation Funded Research Assistant**          May 2023 – Aug 2023

- Generated novel and useful data using Linux VMs, Python, JupyterLab, and supercomputers
- Used and compared machine learning models on clean data documenting key metrics in Excel
- Coordinated and communicated effectively with a co-researcher and professor
- Continued to use skills gained in projects after the position closed