

# KRISHNA CHETAN

571-364-4648 | [krish0723@gmail.com](mailto:krish0723@gmail.com) | [www.linkedin.com/in/krishnachetan0723](http://www.linkedin.com/in/krishnachetan0723) | <https://github.com/krish0723>

## EDUCATION

### Stony Brook University

*Expected August 2022*

- **Major:** Computer Science, Bachelor of Science
- **Relevant Coursework:**  
Analysis of Algorithms, Scripting Languages, Data Structures, Software Development, Principles of Database Systems, Programming Abstractions, Intro to Data Science, Systems Fundamentals I & II

## EMPLOYMENT

### Software Developer | Softenna

*January 2022 - Current*

- Technologies Used** - MongoDB, Realm, Swift, Stripe API, SanityIO, React, Express, NodeJS, Google Cloud
- Architected and implemented a back end system for an in-house social media mobile application using MongoDB & Swift.
  - Integrated Realm into the stack to allow for persistent data storage on-disk, user authentication, & data sync across devices.
  - Utilized the Stripe API to provide customers a seamless payment experience and abstract out financial litigation for the business.
  - Developed an admin CMS using React and built out a REST Api using Express to connect the front-end to MongoDB.
  - Operated in an AGILE dev environment and utilized CI/CD best practices.

### Data Engineer Intern | Wolfsped

*May 2021 - August 2021*

- Technologies Used** - Microsoft SSMS, Java, JMP, Tableau Prep, Excel, Camline SPACE
- Implemented a CPU aliasing system using batch script and Java to allow for seamless CPU upgrades and SPC chart retainment within Wolfsped's Camline SPACE Monitoring application.
  - Optimized and automated an in-line & final test data consolidation process by writing SQL stored procedures that saved management an effective 2 hours of productivity time.
  - Utilized Tableau Prep and Excel to analyze, consolidate, and develop a dataset of Wolfsped employees that use Camline SPACE.

### Co-Founder & Developer | Eastvibe Studios LLC

*May 2019 - May 2021*

- Technologies Used** - R, Python, Pandas, Numpy, Excel, MySQL
- Founded a creative management company that specializes in music artist streaming growth.
  - Designed artist development plans by utilizing Python with Spotify and Facebook's Web APIs to pull and prep streaming analytics data and build product (song) growth models.
  - Increased algorithmic playlisting for clients by an average of 86% on Spotify & Apple Music by executing artist development plans, and implementing ML models built using Python and PyCaret that predict song popularity.

## SOFTWARE PROJECTS

### Social Lister Application (Full Stack)

*August 2021 - December 2021*

- Technologies Used** - MongoDB, Express, AJAX Axios, NodeJS, React, Redux, Javascript, CSS, Material UI, Postman
- Architected and developed a MERN stack application that allows users to create, update, share, and vote on their favorite lists in any category.
  - Integrated user authentication and authorization using the bcrypt framework.
  - Designed and implemented a RESTful backend server allowing for persistent data storage using MongoDB, NodeJS, and Axios.
  - Utilized CI/CD best practices such as version control, performance testing, and security testing.

### AI Stock Forecasting Application (Full Stack)

*January 2021 - May 2021*

- Technologies Used** - Python, AutoARIMA, TensorFlow, Plotly, Matplotlib, SKLearn, Swift, Firebase
- Produced train and test data sets by pulling historical stock data from the YFinance API and utilizing the Pandas and SKLearn libraries to pre-process and scale.
  - Developed two time series forecasting models in python, the first using ARIMA's modeling framework and the second using TensorFlow's LSTM framework. Both models include backtesting and allow for front end integration with Swift.
  - Optimized both models by tracking and adjusting epoch, batch Size, and neuron values, using RMSE & MAPE as KPIs and achieved an optimized RMSE value of 0.205.
  - Developed a full stack iOS application using Swift and Firebase that allows a user to run their own AI model on a company stock of their choosing.

## SKILLS

- **Programming:** Python, Ruby, Java, OCAML, MIPS Assembly, R
- **Software Development:** React, Node.js, Express, Swift, Svelte, Javascript, HTML, CSS, Git
- **Database:** MongoDB, Realm, MySQL, Microsoft SSMS, Firebase, Excel
- **Frameworks & Technologies:** Pandas, SKLearn, Pycaret, Numpy, TensorFlow, Tableau, JMP, Camline SPACE