KRISHNA CHETAN

571-364-4648 | krish0723@gmail.com | krishnachetan.com | www.linkedin.com/in/krishnachetan0723 | https://github.com/krish0723

EDUCATION

Stony Brook University   *December 2022*

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

EMPLOYMENT

Full-Stack Developer | Domagne   *January 2022 - Present*

Web3 mobile development company currently building social media style ERC-721 compliant NFT marketplace solutions.

Tech - MongoDB, Realm, Swift, Stripe Connect API, MUI, React, Express, NodeJS, AWS S3 & MediaConvert, IPFS , JWT, bcrypt

- Back-end development for both customer-facing and internal applications with **Express** and **MongoDB Realm** (REST Protocol).
- Deployed NFT marketplace IOS mobile application with persistent local data storage, **JWT** user auth, & cross-device data sync.
- Utilized the **Stripe Connect API** to allow for multiparty-payments, stakeholder royalties, and financial liability abstraction.
- Architected and developed a fully-scalable admin content management system allowing for granular rule implementations.
- Operated in an AGILE dev environment using **Git** for ver. control and setup staging deployment pipeline using **Heroku.**

Data Engineer Intern | Wolfspeed   *May 2021 - August 2021*

Global semiconductor supplier headquartered in RTP, NC

Tech - Microsoft SSMS, Java, JMP, Tableau Prep, Excel, Camline SPACE

- Implemented a CPU aliasing system using **batch scripting** and **Java** to allow for seamless CPU upgrades and SPC chart retainment within Wolfspeed's Camline SPACE Monitoring application.
- Optimized and automated an in-line & final test data consolidation process by writing complex **SQL** scripts that saved management an effective 2 hrs/day of productivity time.
- Utilized **Tableau (Prep)** and **Excel** to analyze, consolidate, and organize a dataset of Wolfspeed employees that use Camline and build out attribute values supporting the infrastructure of the overall application.

Co-Founder & Developer | Eastvibe Studios LLC   *May 2019 - May 2021*

Creative management company specializing in artist streaming growth and master recordings.

Tech - R, Python, Pandas, Numpy, Excel, MySQL, Next.js, Blueprint.js, Stripe, Email.js

- Founded a creative management company with two primary products. In-person recording/mixing and artist streaming development.
- Utilized **Python** & **Pycaret** with Spotify & Facebook's Web APIs to pull + prep/scale streaming analytics data and build popularity prediction models for each campaign. Increased algorithmic playlisting for clients by ~ 86% across Spotify & Apple Music.
- Developed client-facing website using **Next** and **Blueprint.js** which allowed clients to book sessions online using **Stripe** and contact us with any inquiries using **Email.js**.

SOFTWARE PROJECTS

Velvet - Cross-Platform Stock Forecasting Application (ML + Full Stack)   *August 2021 - Present*

PWA mobile application that allows a user to run their own HFT model on a NYSE stock & manage their personal finances via Plaid

Tech - React, Typescript, Ionic, Plaid, MongoDB, Python, AutoARIMA, TensorFlow, Plotly, Matplotlib, SKLearn, huggingFace

- UI/UX design, architecture, & development for a cross-platform mobile application built using **MERN** + **Ionic.**
- Created train, test, & val data sets using data from YFinance API and utilized **Pandas** and **SKLearn** to pre-process and scale.
- Developed two time series forecasting models allowing for backtesting in **Python**, the first using **ARIMA's** modeling framework and second using **TensorFlow's** LSTM framework. Optimized using KPIs such as F1 score and recall to reach RMSE<0.025.
- Utilized **huggingFace's** finBERT, to build a sentiment analysis model that uses financial headlines to predict investor sentiment.
- Integrated **Alpaca** API to allow for encrypted portfolio management and automated HFT trading.

Lovelly - Ecommerce Platform (Full Stack)   *February 2022 - May 2022*

Sustainably sourced crochet-focused fashion brand (contract)

Tech - Grommet.io, Next.js, MongoDB, Realm, Node.js, React, Redux, Javascript, CSS, Paw, AWS S3

- Utilized **Grommet.io** to develop and deploy a digital storefront and content management system in less than 3 months.
- Architected and developed server-side apis for both applications using **MongoDB + Realm. I**mplemented **JWT auth** for portal.
- **U**tilized **Next.js** to build a highly optimized front-end for both applications incorporating **server-side rendering.**
- Utilized **CI/CD** best practices such as version control with **Git**, performance testing with **Next.js**, and security testing.

SKILLS

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