

Preetham Ramesh

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Experience

- **Software Engineer Intern, HueDrop** (Dec 2021 – Apr 2022)
 - Designed and implemented an algorithm to modify NFT metadata in compliance with OpenSea standards and upload sets of PNG and JSON files to IPFS (InterPlanetary File System) using **Node.js** and the Piñata SDK.
 - Developing a minting website for an NFT collection using **React.js** and Truffle
 - Creating and deploying smart contracts on the Ethereum blockchain using **Solidity**
- **Software Engineer Intern, DataFly Inc.** (Sep 2020 – Mar 2021)
 - Developed and optimized a **Python** framework using Pandas, NumPy, AWS lambda, and S3 to convert consumer data into user-friendly visualizations to create reports tailored for customers' datasets.
- **METX Department Assistant, METX Dept. at UC Santa Cruz** (Aug 2019 – Dec 2021)
 - Refined and enhanced the METX website to improve accessibility to department information.
 - Coordinated department seminars/events featuring guest speakers from around the world.

Projects

- **File Compressor/Decompressor**
 - Implemented the Lempel-Ziv algorithm in **C** using abstract data types such as prefix trees and lookup tables to compress and decompress files in a lossless manner.
- **Track Record**
 - Designed and developed a website using **Flask** and Materialize **CSS** which retrieved a user's top tracks and artists using Python and the Spotify API.
- **Portfolio Analyzer**
 - Developed a robust application in **React.js** to display and filter stocks from a Yahoo Finance Portfolio based on user-specified attributes.
- **Sudoku Solver**
 - Developed a sudoku solver by translating the sudoku puzzle to a Boolean satisfiability problem and using Python libraries such as **pysat** and **Glucose3** for a custom implementation of an SAT solving algorithm.

Education

- **San Francisco State University, M.S. in Computer Science** (Aug 2022 – Dec 2023 Expected)
- **UC Santa Cruz, B.S. in Neuroscience** (Sep 2017 – Dec 2021)
 - Relevant Courses:
 - Calculus, Statistics, Linear algebra, Discrete math
 - Computer Systems and Assembly Language, Computer Systems and C Programming
 - Data Structs. and Algorithms, Analysis of Algorithms, ML, DB Systems, Comp. Models

Skills

- Languages: Python, C/C++, HTML/CSS, Java, PostgreSQL, JavaScript
- Technologies: AWS, Flask, React.js, Pandas, Sklearn, TensorFlow, Docker