Jonah Tjandra

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📚 Education

University of Illinois at Urbana Champaign   **Champaign, IL**
Computer Science B.S. 3.94 GPA   2020–2023
Coursework: Data Structures, Artificial Intelligence, Discrete Math, Statistics and Probability, Computer Architecture, Systems Programming, Compilers and Programming Languages.
Activities: CS199 Web Development Lead, Quant (SDE Role), James Scholar's Honors Program.

💼 Experience

Susquehanna International Group (SIG)   **Bala Cywnd, PA**
Software Engineer   June 2022–Aug 2022
– Incoming Technology Intern working in the market data team.

University of Illinois   **Champaign, IL**
Web Development Lead   Jan 2022–Present
– Developed and designed a Gradebook System for 300+ students to track their grades.
– Technical Project Manager in charge of architecting and designing web development features to be implemented to website.
– Rapidly develop in an agile workflow using technologies and frameworks such as Angular JS, OAuth, SQL, and Flask.
– Designed and wrote deployment scripts.

Code Certain AI (Software Startup supervised by Professor Woodley)   **Urbana, IL**
Software Developer   June 2021–August 2021
– Constructed an active learning algorithm using sci-kit learn API that reduces training set of model by 27% while achieving the same performance.
– Implemented NLP models: Word2Vec, BOW, and TF- IDF on 12000 data points of code repositories.
– Feature engineering using one hot encoding and encoding cyclical time data.

🔧 Projects

Generalized Graph Crawler
– Developed a generalized parser that can take in dataset and store them in a graph like manner
– Developed a program that crawls unweighted graphs and perform PageRank and Kosaraju's SCC algorithm.
– Used Google's web data (https://snap.stanford.edu/data/web-Google.html) with 875,713 vertices and 5,105,039 edges for POC.

Dermeyetology
– Developed a cloud service that allows user to diagnose their skin conditions on the cloud in less than 880ms.
– Utilized React Js, Flask, MySQL, and Google O Auth to build a robust and scalable system.
– Modeled Machine Learning classifier using multiple convolutional neural networks using TensorFlow.

NLP Lecture Summarizer
– Worked on fine-tuning T5 text-to-text transfer model with hundreds of parameters.
– Designed REST API endpoints, and integrate user authentication using Google o Auth.

✍ Skills

Languages: C, C++, Python, JavaScript, Java, Haskell, SQL

Frameworks: React, Flask, Django, Node JS, Angular

Tools: VSCode, Git, Docker, Ubuntu, Linux/MacOS, HTML, CSS, Pandas, Numpy, Matplotlib, Sci-kit, OpenCV, Tensorflow