Jonah Tjandra

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
B.S in Computer Science
Expected May 2024 | Champaign, IL
Cum. GPA: 3.95
Deans List, James Scholars

LINKS

linkedin.com/in/jonah-tjandra
jonahtjandra.github.io
github.com/jonahtjandra

COURSEWORK

UNDERGRADUATE

- Introduction to Computer Science
- Software Design Studio
- Freshmen Honors: Computer Science
- Data Structures
- Computer Architecture
- Discrete Mathematics
- Linear Algebra
- Calculus II
- Calculus III

SKILLS

TECHNICAL

React • Angular • JavaScript • TypeScript • HTML • CSS
Python • Node.js • Flask • Java
C++ • Docker • Git • Apache2 • OAuth • MySQL
Machine Learning Experience
Tensorflow • OpenCV • Scikit-learn • Pandas • NumPy

EXPERIENCE

UNIVERSITY OF ILLINOIS | Lead Web Developer
January 2021 – Present | Champaign, IL

- Created a Gradebook System for CS 196 (200+ students) and CS 128 Honors.
- Created lectures page and maintain overall website architecture.
- Used Python Flask for creating backend service that has REST APIs, MySQL for database, Google OAuth for authentication.
- Technical Project Manager in charge of scoping and designing semester long projects.

CODE CERTAIN | Software Developer Intern - Machine Learning
June 2020 – August 2020 | Urbana, IL

- Implemented active learning algorithm using Python and sci- kit learn API that reduces training set of model by 27% while achieving the same performance.
- Implemented NLP models like Word2Vec, BOW, and TF- IDF data exploration on company's dataset of 12000 different codebases.
- Created a landing page to work in integration with current code.

PROJECTS

DERMEYETOLOGY | Software Development

- Developed an online service that allows user to diagnose their skin conditions on the cloud. Giving advice on how to treat their condition.
- Collaborated with UW Madison student. Utilized React Js for frontend, Flask for backend, MySQL for database, and Google O Auth for security and user authentication.
- The Machine Learning service is built using multiple convolutional neural networks using TensorFlow.

NLP LECTURE SUMMARIZER | Software Development

- Summarizing lectures using T5 text-to-text transfer model.
- Worked on fine-tuning model with lecture transcripts, hosted model in Flask Python backend, created REST API endpoints, and integrate user authentication using Google o Auth.

SORTING VISUALIZER | Software Development

- Created a sorting visualization in C++ for merge, bubble, quick, and selection sort with Cinder UI.
- Make use of object-oriented design, modular programming, and unit testing.

RESEARCH

CAESAR RESEARCH GROUP | Undergraduate Researcher - Software Developer
August 2021 – Present | Champaign, IL
Joined a research team under the supervision of Professor Matthew Caesar. In charge of developing a networking web app to help connect students and mentors in academia and industry.