

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 300+ students to track their grades.
- Developed a lecture page for instructors to post content, such as videos, text, and slides.
- Technical Project Manager in charge of scoping and designing 2 semester long projects.
- Used Python Flask for creating backend service using REST APIs, MySQL for database, Google OAuth for authentication.

CODE CERTAIN | SOFTWARE DEVELOPER INTERN - MACHINE LEARNING

June 2020 – August 2020 | Urbana, IL

- Coded an 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 in less than 880ms.
- Coordinated with UW Madison student. Utilized React Js for frontend, Flask for backend, MySQL for database, and Google OAuth for security and user authentication.
- Modeled Machine Learning service 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 hundreds of lecture transcripts, hosted model in Flask Python backend, created REST API endpoints, and integrate user authentication using Google OAuth.

SORTING VISUALIZER | SOFTWARE DEVELOPMENT

- Engineered 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

- Worked under the user authentication service.
- Utilized Google OAuth for user authentication.