Jonathan Wang

jnwang19@berkeley.edu   609-541-1129
linkedin.com/in/jonathan-wang-/   github.com/jnwang19

EDUCATION

University of California, Berkeley   Aug 2018 – May 2022
BA Computer Science (GPA: 4.0)
Relevant Coursework:
- Artificial Intelligence, Data Structures, Machine Structures, Foundations of Data Science, Linear Algebra, Probability Theory, Discrete Math

EXPERIENCE

Software Engineering Intern, DeepHow, Detroit, MI   Jan 2019 – Oct 2019
- Developed an AI-powered learning platform based on interactive how-to videos.
- Created a training data pipeline for a text summarization model, using PDF.js to extract images from PDF files and parse step titles, and writing Python scripts to automatically scrape PDFs from the web.
- Improved video search page and video editing interface using Vue.js.
- Added a subtitle feature and integrated with the Cloud Firestore backend.

Natural Language Understanding Lab Intern, Academia Sinica, Taipei   June 2019 – Aug 2019
- Performed error analysis on state of the art named entity recognition models, including BERT and Flair.
- Built an original NER models in PyTorch to enhance contextual information, including self-attention model in Flair embeddings, masking in BERT, and adding dependencies.

INVOLVEMENT

Developer Consultant, Blockchain at Berkeley, Berkeley, CA   Sept 2018 – Present
- Consulted with Fortune 500 clients (Samsung) and developed a proof of concept web application, integrating Microsoft Azure Blockchain Workbench with a React frontend.
- Designed and developed a full stack e-book resale application on Ethereum, using Web3.js to integrate with Solidity smart contract scripting with an HTML/CSS frontend.

Research Assistant, UC Berkeley EECS Department, Berkeley, CA   Sept 2019 – Dec 2019
- Contributed to a neural program synthesis project to automatically convert natural language questions to SQL queries, under Prof. Dawn Song's lab.
- Improved beam search reranking on Spider dataset with a discriminative matching model.

Academic Intern, UC Berkeley EECS Department, Berkeley, CA   Jan 2019 – Dec 2019
- Provided guidance on projects, labs, and homework at office hours as a member of the course staff.
- CS 61A (Python, SQL, program structure) taught Spring 2019.
- CS 61B (Java, data structures, algorithms) taught Fall 2019.

Research Assistant, Haas School of Business, Berkeley, CA   Feb 2019 – May 2019
- Researched the effect of training data on real world machine learning algorithms.
  Performed cross-dataset generalization computer vision tests using OpenCV and TensorFlow.

SKILLS

- Programming: Java, Python, SQL, Git, PyTorch
- Web Development: HTML, CSS, JavaScript, React, Vue.js