David Chang

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Education History

University of Washington, Seattle Sept 2018 – Jun 2022
B.S. in Computer Science, Minor in Mathematics
GPA: 3.8/4.0
Relevant Coursework: *Machine Learning*, *Deep Learning*, *Computer Vision*, *Natural Language Processing*, *Data Structures and Parallelism*, *Algorithms*, *Software Design and Implementation*, *Systems Programming*, *Security*

Experience

Docugami, Kirkland, WA Sept 2022 – Present
Machine Learning Engineer
- Trained and evaluated various multimodal models and exported them to TensorRT to host on NVIDIA triton server, speeding up inference time by 4x.
- Collaborated with infrastructure engineers, AI scientists, and product managers to build modular designs that benefit both the ML lifecycle and integration into production
- Built an MLOps pipeline to automate the ML workflow for the science team using MLFlow, DVC, and Google Cloud Platform
- Managed a team of offshore data annotators with weekly check-ins and continuous data quality validation, saving 10+ hours/week on manual annotation work

Docugami, Kirkland, WA Jun 2022 – Sept 2022
Machine Learning Engineer Intern
- Designed and annotated a novel SQuAD-style dataset for contextual language understanding on business documents
- Fine-tuned a distilled foundation model on this dataset and achieved 8% higher F1 score and 3x faster inference speed on production test data
- Performed large-scale data processing and leveraged distributed computing for model inference using Apache PySpark
- Deployed code across varying environments using CI/CD tools on Azure DevOps

UW NLP, xlab, Seattle, WA Mar 2021– Jun 2022
Research Assistant
- Created a vision and language task and dataset for social commonsense reasoning on movie scenes and captions
- Fine-tuned OpenAI CLIP with an image masking technique and achieved higher accuracy than UNITER model on RefCOCO dataset

Paul G. Allen School of Computer Science & Engineering, Seattle, WA Jan 2021– Mar 2022
Data Programming Teaching Assistant
- Taught a curriculum of Python and the fundamentals of Data Programming
- Led a weekly session of 30 students and communicated feedback on assignments and exams
- Worked with students one-on-one during weekly office hours

Projects

Directed Graph Notes Web Application Jun 2021– Aug 2021
- Built a directed graph editor for dynamic note-taking and planning that organizes tasks by priority
- Designed a REST API using Django and created a frontend, fully interactive graph visualizer using React and D3
- Implemented Ford-Fulkerson algorithm to determine the set of maximum priority tasks

Skills

Languages/Libraries: Python, NumPy, PyTorch, Pandas, Java, C/C++
Tools: Azure, AWS S3, Kubernetes, MLFlow, DVC