

Chung Peng (Anderson) Lee

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EDUCATION

University of Washington

Seattle, WA

M.S. in Computer Science

09/2024 - 06/2025

- Combined B.S./M.S. Program

B.S. in Computer Science

09/2021 - 06/2024

- **GPA:** 3.98 / 4.00, departmental honor
- **Relevant Courses:** Machine Learning, Advanced Machine Learning, Deep Learning, Data Structures & Parallelism, Algorithms, Data Management (SQL), Explainable AI, Probabilistic Graphical Models, Natural Language Processing, Operating System
- **Skills:** Java, Python, PyTorch, NumPy, Scikit-learn, SQL, C#, TypeScript, JavaScript, React, C/C++ , MATLAB, Slurm

WORK EXPERIENCE

Incoming Software Engineer Intern | Stripe

06/2024 - 09/2024

Credit Detection Team (Machine Learning)

Seattle, WA

Software Engineer Intern | SeekOut

06/2023 – 08/2023

Azure, Azure OpenAI, CosmosDB, NoSQL, Rest API, Kusto, C#, TypeScript, React, Jira

Bellevue, WA

- Collaborated with PM and design interns to build client-facing admin tool to allow configuration of job architecture within organization to improve scalability by granting clients ability to modify their own customized attributes end to end through APIs
- Extracted and categorized top 30 common skills for specific job positions from 500+ skill recommendations by clustering embeddings of skills with Kmeans and providing explainability through umap dimensionality reduction
- Delivered admin tool in production to allow hiring managers in client's organization to curate skills content pertained to their internal job board with skills recommendation support in 3 weeks

Teaching Assistant | University of Washington

09/2022 – 03/2024

Java, Data Structures, PyTorch, Python, Public Communication

Seattle, WA

- Introductory Programming I (CSE121), III (CSE123), and Machine Learning (CSE446/546 × 3)

RESEARCH EXPERIENCE

Undergraduate Researcher | Advised by Rachel Hong, Jamie Morgenstern

10/2023 – Present

Fair Image Classification Under Data Scarce Regime

Seattle, WA

- Developed fairness constraints and noise tolerant algorithms to enhance fairness of image classifiers under data scarce regime

Research Assistant | Advised by Emmanuel Mensah, Kurtis Heimerl

01/2023 – 12/2023

Low Resource Multimodal Machine Learning for Wildlife Monitoring

Seattle, WA

- Improved audio-visual localization by implementing bottleneck cross-attention on MobileViT
- Trained MobileViT to achieve 50.2% accuracy on SSW60 fine-grained classification dataset in 1.12M parameter counts opposed to baseline large model with 58.9% and 86M parameter counts

PROJECTS

Knowledge Distillation Inspired Techniques for Tiny Language Models

Winter 2024

HuggingFace, PyTorch, LLM

Course Project

- Developed a knowledge distillation inspired technique for smaller models (110M, 345M, 735M) to learn from generated and refined output of larger models (13B) to benchmark OpenbookQA dataset
- Utilized retrieval of Wikipedia document and a faithfulness model to filter potentially poor quality generations from the teacher model
- Achieved 5% accuracy gain compared to standard finetuning on OpenbookQA training set and observed marginal gain decreasing when student models' sizes increase

Dimensionality Reduction on Downstream Stock Return Prediction

Spring 2023

TensorFlow, Python, NumPy, pandas

Personal Project

- Explored the downstream effects on stock return prediction of dimensionality reduction approach including Autoencoder, PCA, and random selection (baseline)