Kennan LeJeune

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Summary

Highly motivated B.S. Computer Science candidate with a strong foundation in object oriented programming, full stack application development, and theoretical machine learning. Experienced with macOS, Linux, and scripting for UNIX systems. Excellent written and verbal communication skills.

Education

Case Western Reserve University (CWRU) - Cleveland, OH   August 2017 - May 2021
B.S./M.S. Computer Science, 3.77/4.00 GPA
Relevant Coursework: Algorithms, Linear Algebra, Theory of Computation, Databases, Operating Systems, Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision

Skills

- Machine Learning: Python, Numpy, Scipy, SciKit-Learn, Tensorflow, Keras, OpenCV
- Backend Development: Node.js, Java/Kotlin with Spring, Python with Flask/Django, MySQL, PostgreSQL
- Frontend Development: Typescript, Javascript, Angular, Vue.js, HTML, CSS, Material UI
- Unix Systems: Bash, Awk, Core Utilities, NixOS, Vim, Git

Experience

Machine Learning & Software Engineering Intern   May 2020 - August 2020
The Johns Hopkins University Applied Physics Lab - Laurel, MD
- Developed random forest and Bayesian network pipeline for organism threat classification
- Performed literature review and implemented dna2vec algorithm to automate feature extraction and dimensionality reduction for DNA sequences
- Contributed to a large scale Angular application to provide an online learning approach to automated document tagging and classification

Software Engineering Intern   May 2019 - August 2019
The Johns Hopkins University Applied Physics Lab - Laurel, MD
- Worked in an Agile/Kanban environment to develop an offline Android application written in Java and Kotlin, delivering WMD data analytics from a SQLite knowledge base.
- Delivered modular Angular components for an internal UI library used in multiple projects
- Contributed a web application utilizing a Java Spring backend, Angular 7 frontend, and Selenium web scrapers to collect social media data and deliver Elasticsearch data analytics

Software Development Intern   September 2018 - May 2019
Agriplex Genomics - Cleveland, OH
- Developed a job scheduling application from scratch in Angular and designed an algorithm to optimize job scheduling to increase data throughput
- Designed a Postgres database model to store jobs and their associated data, and built a corresponding RESTful API to allow application interaction

Projects

Graduate Research Assistant, Communities of Learning Machines   August 2019 - Present
CWRU Department of Computer and Data Sciences - Cleveland, OH
- Investigated learning behavior of learners in a communicative network environment
- Explored the effects of adversarial agents on agent trust models within the network
- Examined properties of dynamic networks to accelerate a community learning rate

Transfer Learning with Locally Weighted Ensembling   December 2019
github.com/kclejeune/locally-weighted-ensembling
- Python implementation of Locally Weighted Ensembling, *(doi.org/10.1145/1401890.1401928)*
- Utilizes local structure mapping to approach domain adaptation for sentiment classification