Jonathan Pedoeem

39 Ferris Drive, West Orange NJ 07052 • (201) 563-0947 • jonathanped@gmail.com • jped.github.io • github.com/jped

Education

The Cooper Union, New York City, NY Electrical Engineering with Math minor • GPA: 3.6 • Expected Grad.: June 2020

Relevant Courses: Deep Learning • Digital Signal Processing • Data Structures and Algorithms • Natural Language Processing
• Signals and Systems Processing

Machine Learning Experience

Computational Graphs for Machine Learning (Deep Learning) Course   *September 2018 - December 2018*
- Intensive course focused on building neural networks and reading contemporary research papers
- Projects include: MNIST classifier, CIFAR10 classifier, CIFAR100 classifier, AG news topic classifier, reproduction of *Measuring the Intrinsic Dimension of Objective Landscapes*. Projects are on Github
- Multimodal Embeddings for Polysemous Word Representations, final project.

Data Mining Research Experience (REU) at UNCW   *May 2018 - July 2018*
- Paper accepted to *5th National Symposium for NSF REU Research* at the 2018 IEEE conference on Big Data
- Developed Convolutional Neural Network Architecture YOLO-LITE, an object detection algorithm that can run real-time on non-GPU computers and is 3.8x faster than state-of-the-art. Funded by NSF . Web demo: https://reu2018dl.github.io/
- Trained and Built Projects using R in techniques such as Linear and Logistic Regression, Linear Discriminant Analysis (LDA), .Kernel-LDA, Quadratic Discriminant Analysis, K-Nearest-Neighbors, Leave One Out Cross Validation, K-Folds Cross Validation, Bootstrapping method, Decision Trees, Classification Trees, Bagging, Random Forest, Support Vector Machines, Principal Component Analysis (PCA), and KPCA (Projects can be seen here)

Natural Language Processing Course   *January 2018 - May 2018*
- Class focused on traditional NLP techniques as covered in Speech and Language Processing by Jurafsky 2nd Edition
- Article Topic categorization project
- Spell checker and corrector project

Research Data Analyst   *June 2017- December 2017*
- Analyzed 10 weeks of cellphone data collected at Port Authority Bus Terminal with Professor Shlayan at The Cooper Union
- Worked on devising a model to predict arrival and exit rates in the terminal
- Worked on building an MM1 Jackson queueing network that will model user movement

Work Experience

Data Strategy Technical Intern at Clarifai   *September 2018 - Present*
- Build tools and models needed by data strategy team for customers
- Communicate and collaborate technical challenges with product and applied machine learning teams

Co-Founder and Lead Developer for the Morning Munch LLC *https://themorningmunch.com*   *June 2017- Present*
- Built a content aggregation app that combines many different feeds into one place
- Built the website, email service, and backend api, used a MEAN Stack
- Over 200 users and growing

Lead Web Developer for Four Questions of Judaism *http://fourquestionsofjudaism.com/*   *January 2016- Present*
- Single handedly built website with python on google app engine for users to discuss essays on different philosophical topics
- Weekly emails have 800 subscribers and growing

Software Engineering Intern at Pagevamp   *Summers 2014, 2015*
- Built a web scraper and mySQL database for their Facebook page directory
- Built white label license interface Pagevamp Blog: The Comment that Changed it all

Skills, Hobbies, and Honors

Highly Proficient
MATLAB, R, Python (6+ years), HTML, CSS, javascript, webapp2, bootstrap, spectre.css, web scraping

Proficient
Keras, C, C++,Arduino, Raspberry Pi, MySQL, jquery, angular.js, node.js, express.js, bash, redis, git, gearman, MongoDB

Competitions and Honors
Kaggle Participant • YU Hackathon 3rd place winner • ACM Competition Contestant • CIJE Young Engineers Conference Award

Extracurriculars
Hillel (Social Outreach Chair) • Research Paper Club (Founder)

Hobbies
Biking, running, coffee shops, world politics, debating