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Personal Statement

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown...

Skills/Experience

Research MVPs	Linux Systems	Education/Mentoring	Ticketing Systems
ML/Data Sciences	Remote Work	Communication	Rubber Ducking

GrammaTech – R&T Machine Learning Engineer March 2020 – present

Developed distributed feature extraction & ML training pipelines supporting DARPA programs
Produced ML security research on compiled binaries in decompilation & vulnerability detection
Evaluated & completed technology transfer of university research work into release products
Technologies : Python, C, PyTorch, Docker, celery, Kibana, GitLab.ci, LevelDB, MongoDB

HappyWhale – Mobile / Full Stack Developer March 2019 – March 2020

Developed Polar Collective App, a cross platform phone app supporting citizen-science work
Core developer for web user tools in whale sight logging, identification, & tracking
Technologies : Native/TypeScript, Angular, Android, iOS, PostgreSQL, Java, Spring, firebase

NASA Jet Propulsion Lab – Data Science Intern June 2018 – Sept 2018

Developed employee Expertise Recommender System, automating expensive mission-critical tasks
Completed deployable prototype from research papers & meetings with top NASA/JPL employees
Implemented stable/principled text normalization, tokenization, & model evaluation
Technologies : Python, nltk, gensim, pyLDAvis, pandas, Jupyter, Author-Topic-Model, LDA

OHSU DCAN Neuroimaging Lab – Graduate Research Assistant Oct 2017 – June 2018

Contributed to microbiome population analytics, studying menopause & reproductive health
Developed processing pipeline & audit tools for reported & fMRI data, on AHDH/ASD studies
Authored project guidelines, git trainings, & acted as lab security/privacy representative
Technologies : Python, Bash, R, dplyr, phyloseq, neo4j, ponyorm, stan, GitLab, Docker

Graduate Research CSLU/ACO – Machine Learning (Audio Data) Sept 2017 – Dec 2019

Implemented & transferred deep anomaly detectors from research papers to marine bio-acoustics
Designed, developed, & managed research work in a remote environment without oversight
Measured effects of spectral subtraction & deep noise reduction techniques on ML models
Developed ACOio track explorer, enabling research on 10 year (12 TB) continuous audio track
Technologies : ACOio, Keras, tensorflow, PyTorch, scipy.signal, Jupyter, flask, Angular

RGB Optics (Part Time) – Contractor/Consultant Nov 2015 – present

Developed image processing tools for low cost spectral analysis, to study light pollution
Authored educational material in light pollution's effect on economy, biology, & technology
Developed natural language processing tools to organize & explore Myeloma clinical trials
Provide technology tutorials/consultation on code optimization, NLP, & image processing
Technologies : Python, skimage, sklearn, AWS, CliNER, Morphological Watersheds, OpenCV

Galois Inc. – R&D Software Engineer April 2014 – Dec 2015

Developed processing pipelines & workflows to enable evaluator work for DARPA programs
Helped run professional trainings to disseminate new probabilistic programming languages
Produced biannual quantitative & qualitative reports on for DARPA & other PPAML teams
Technologies : Python, SLURM, Scala, Figaro, Chimpy, Docker, Jira, Basecamp

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Oregon Health Science University
Computer Science & Machine Learning
Masters of Science
2016 – 2019

Western Washington University
Computer Science & Cryptography
Bachelor of Science, Math Minor
2007 – 2012