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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

- Transferred NLP research to binaries in decompilation/reverse engineering applications
- Performed research & evaluated ML work on compiled binaries in vulnerability detection
- Developed feature extraction & ML training pipelines supporting DARPA programs
- Completed technology transfer of university research work to release products

Technologies : Python, C, PyTorch, RetDec, asts.AST, GTIRB, Docker, celery, GitLab.ci

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

- Developed Polar Collective App, x-platform phone app supporting citizen science projects
- Core developer for web user tools in sighted whale logging, identification, & tracking
- Curated and developed/dataset access points for researchers in population ecology projects

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 critical tasks
- Designed & completed prototype from research papers & advisement of top NASA/JPL employees
- Presented & defended NLP/ML prototype to non-computational decision makers at JPL

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 survey & fMRI data, on AHDH/ASD studies
- Provided git, Project management, & and security trainings for various readiness levels

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 anomaly detectors from research papers to marine bio-acoustics
- Measured effects of spectral subtraction & deep noise reduction techniques on ML models
- Developed ACOio track explorer, enabling research on (10 yr/12 TB) continuous audio track

Technologies : ACOio, Keras, tensorflow, PyTorch, scipy.signal, Jupyter, flask, Angular

RGB Optics (Part Time) – Volunteer/Mentor Nov 2015 – present

- Developed image processing tools for low cost spectral analysis, to study light pollution
- Authored training material: Effect of light pollution on economy, biology, & technology
- Statistics, image processing, and optimizations consultant on low cost medical blood tests
- 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