SYNPON

Thomas Wood

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EDUCATION

UNIV. OF WASHINGTON
MS in Applied Mathematics
Mar 2013 | Seattle, WA
Focus in Scientific Computing, Data Analysis, and Robotics

LAMAR UNIV.
BS in Physics
Dec 2007 | Beaumont, TX
Focus in Longitudinal Optics and Quantum Field Theory

LINKS

Github:// **odellus**
LinkedIn:// **optimaldynamics**

COURSEWORK

GRADUATE
Scientific Computing
Computational Data Analysis
Neural Control of Motion
Robotic Manipulators
Partial Differential Equations
Nonlinear Dynamics and Chaos
Stochastic Processes

UNDERGRADUATE
Quantum Field Theory
Quantum Mechanics
Optics
Solid State Physics
Electrodynamics
Analytical Mechanics
Differential Equations
Linear Algebra I & II
Organic Chemistry I & II
Calculus I-IV
Intro to Programming

SKILLS

PROGRAMMING
Python (*expert*)
Matlab (*expert*)
R (*proficient*)
C++ (*proficient*)
CUDA (*proficient*)
Spark (*proficient*)
Node JS (*beginner*)

EXPERIENCE

LIFEBIO
AI Scientist
Feb 2021 - Current | Remote
- Architect and implement data and ML pipelines
- Long document summarization and question answering
- Hybrid cloud computing with MicroK8s and Azure

SYNPON
Chief Scientist
Jun 2013 – Current | Las Vegas, NV
- Horticultural robotics research and development
- Graph deep learning research and development
- Open-ended question answering systems research

PORTLAND GENERAL ELECTRIC
ML Engineer
July 2020 - Dec 2020 | Portland, OR
- Implement data science projects in production
- PV hosting capacity estimation from weather data

NIKE
Data Scientist
May 2019 - July 2020 | Beaverton, OR
- ETL development with Airflow, Spark, and AWS Redshift
- NodeJS microservices with AWS Lambdas for real time data analytics
- Python training lead

HUAWEI
Data Engineer
Jul 2018 - Jan 2019 | Santa Clara, CA
- Graph database engineering with huawei graph engine service
- Visual relation detection and scene graphs for semantic image retrieval
- Large scale graph deep learning and applications to traffic modeling

ASTOUND
Machine Learning Scientist
Dec 2017 - Mar 2018 | Menlo Park, CA
- Development and Implementation of AutoML systems using Apache Airflow, Keras, Spark, and AWS
- Applied Natural Language Understanding

CERTIFICATIONS

Deep Reinforcement Learning	Udacity	Apr 2020
Underactuated Robotics	MITx	Dec 2015
Initiating and Planning Projects	Coursera	Jul 2015
Plasma Physics	EPFLx	Jun 2015

etcetera