Rafael Schleder

Undergraduate Software Engineer & Data Scientist

rschleder.com/

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SKILLS

C/C++ (fluent)

Python (familiar)

Java (familiar)

Machine Learning

Natural Language Processing

Data Analysis

Agile, Jira

HTML, CSS, JS (familiar)

Bash, git, CLI

Verilog & FPGA testing

GDB, Visual Debugging

Travis CI, Test Development

Make, Build Systems

Control Systems

CAD Logic Design

CAD Drafting

AWARDS

DEAN'S LIST
U of M, '18 - '19

UNIVERSITY HONORS
U of M, '18 - '19

RESEARCH SCHOLAR
Air Force Lab, '18

CUM LAUDE
CL Society, '17

EXPERIENCE

JP MORGAN CHASE & CO. / *Chicago, IL / January '20 – Current*

Machine Learning Intern

Automated and optimized customer service queries for the Wholesale Loan Services (WLS) team, in the Commercial bank by developing a chatbot using the Natural Language Processing through the Amelia framework, DNNs and groovy script.

Developed Data generation system using LSTM Machine Learning in python, to automate training and testing of Chatbot

UNIVERSITY OF MICHIGAN / *Ann Arbor, MI / October '18 – Current*

Discrete Math Teaching Assistant *January '20 – Current*

Assisted in the instruction of over 900 students, by developing Homework, Exams, Discussions, Office Hours and Lectures, on topics from Logic, Probability, Algorithms, and Number theory

Worked on administration team to administer exams and oversee transition to online teaching during the Covid-19 Outbreak, and managing lecture recordings

Undergraduate Researcher *October '18 – May '19*

Cut experimental component cost by 90% and reduced production time significantly, through the implementation of advanced manufacturing with CNC machining and 3D printing, and by iteratively designing CAD models.

DOD/DOE National Labs / *Albuquerque, NM / Summer '17, '18*

Technical Intern

Acquired additional clients by showcasing Electromagnetic Theory Group work by developing internal website and skills database using HTML, CSS, and JavaScript

Analyzed data and developed visualizations for electromagnetic simulations and experiments, by scripting in Python and MATLAB. Improved Simulations by defining and programming additional shapes and figures in C++

Contributed to control system for Autonomous Production of Satellites in collaborative lab with University of New Mexico, under Space Vehicle Directorate, clearance required

PROJECTS

NMDOH Machine Learning *Summer '19*

Improved emergency medical service data query accuracy by 20% through automating report categorization based on natural language processing written in C++,

Influenced policy decisions by quantifying correlation between rurality and death rate using deep learning via TensorFlow

Web Development *Summer '19*

Designed and built personal website by learning HTML, CSS, and some JavaScript. Then contracted design and maintenance work from local businesses in Albuquerque, NM

EDUCATION

UNIVERSITY OF MICHIGAN 2022

B.S.E. Computer Science, B.S.E. Data Science Engineering 3.71/4.0

EXTRACURRICULARS

Multi Disciplinary Design 2020 Cohort
Michigan Research Community (MRADS)
VP of New Member Education @ SEPi
Finer Things Cinema Club

COURSEWORK

EECS 497* – Human Centric Software Design
EECS 281 – Data Structures and Algorithms
EECS 370* – Intro to Computer Organization
EECS 201 – Computer Science Pragmatics
EECS 203 – Discrete Mathematics
MATH 425 – Intro Probability Theory
EECS 376* – Foundations of CS
EECS 285 – Practical Programming, Java
EECS 280 – Data Structures
MATH 214 – Applied Linear Algebra