Jacob Johnson

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Skills

Fluent in German
Proficient at Java, C#, and Python (including PyTorch and HuggingFace libraries)
Familiar with Git/GitHub, LaTeX, VScode
Learning VHDL and Flask (Python web application framework)

Work Experience

Cashier at Smith's Food and Drug (32hrs/wk)   August 2024 – Present
- I help customers pay for groceries, apply coupons, etc.

Training Data Labeling Intern at FamilySearch (20hrs/wk)   May 2024 – August 2024
- I labeled historical records in high detail to be used for Machine Learning training

Research Assistant at University of Utah (40+hrs/wk)   May 2023 – May 2024
- I researched natural language processing and published one paper on my findings

Teaching Assistant at University of Utah (20hrs/wk)   August 2021 – May 2023
- I taught computer labs, gave feedback on graded assignments, and explained topics to students for a range of undergraduate and graduate computer science courses

Assistant Aquatics Director at Camp Tifie, BSA (40+hrs/wk)   June 2021 - July 2021
- I maintained pool equipment, taught swimming and water rescue skills, and performed lifeguarding

Production and Picking Associate at Loftus International (40hrs/wk)   May 2020 – March 2021
- I assembled and packaged products and selected products from inventory for orders

SolidWorks Designer at Epiroc (10hrs/wk)   November 2019 – April 2020
- I designed and modeled mining drills in SolidWorks CAD format.

Design/Manufacturing Associate at Clean Machine (40hrs/wk) January 2016 – September 2017
- I translated some technical drawings of acquired IP into SolidWorks CAD format and ran Mazak CNC Machines

Education

M.S. in Computer Engineering, Weber State University   Fall 2024 – Present
- Currently taking MS Computer Engineering Prerequisites: ECE 3610 "Digital Systems", ECE 1270 "Introduction to Electrical Circuits"
- Spring 2025 planned courses include: ECE 3710 "Embedded Systems", ECE 2260 "Fundamentals of Electrical Circuits"

Ph.D. in Computer Science, University of Utah   Fall 2023 – Spring 2024
- Ended the program early to change topic of interest
- Cumulative GPA of 4.0
- Courses Include: CS 6350 "Machine Learning", CS 6150 "Graduate Algorithms"

B.A. in Linguistics + CS minor, University of Utah   Spring 2020 – Spring 2023
- Cumulative GPA of 4.0
- Courses Include: CS 5340 "Natural Language Processing", CS 6390 "Information Extraction (from text)", LING 5300 "Computational Linguistics", CS 6353 "Deep Learning"

Academic Publications

"Online Learning of ITSL Grammars" (SCiL 2024)
- I developed, implemented, and evaluated an algorithm for learning ITSL languages

"How much Consistency is your Accuracy Worth?" (BlackBoxNLP@EMNLP2023)
- I developed *Relative Consistency*, a probabilistic measurement to compare consistency of models at different levels of accuracy

"Evaluating a Phonotactic Learner for MITSL-(2,2) Languages" (SCiL 2023)
- I implemented and evaluated the MITSL2IA learning algorithm for learning $MITSL_2^2$ languages

"The Effects of Exposure and Explicit Stereotypes on Veracity Judgments of Polish-Accented English Speech: A Replication and Extension of Boduch-Grabka & Lev-Ari (2021)" (Studies in Second Language Acquisition, March 2024)
- I substantially contributed to developing the interface for data collection in the online study