Jacob Johnson

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Overview

Proficient at Python, VHDL, Java, C#
Familiar with SolidWorks, Onshape, git,
Strong technical/computer skills (Word Processing, Spreadsheets, etc) as well as scripting (bash, Python, etc) on major operating systems
Two year background in working with students as Teaching Assistant
Excellent attention to detail and reliablity attested by my academic achievements
Ability to manage and work on large projects attested by my academic publications
"Customer Service"/"Soft Skills" attested by my background working with Students
Fluent in German, basic Spanish

Work Experience

Cashier at Smith's Food and Drug (32hrs/wk) August 2024 – Present
- I manage a self checkout aisle and assist customers.

Training Data Labeling Intern at FamilySearch (20hrs/wk) May 2024 – August 2024
- I developed software to aid in rigorous labeling of detailed historical documents for use in AI training.

Research Assistant at University of Utah (40+hrs/wk) May 2023 – May 2024
- I researched NLP with local and remote colleagues and published one paper on my findings.

Teaching Assistant at University of Utah (20hrs/wk) August 2021 – May 2023
- I taught students in a range of undergrad/grad CS courses through labs, feedback, and help hours.

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

Production and Picking Associate at Loftus International (40hrs/wk) May 2020 – March 2021
- I assembled products and prepared orders for shipping.

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 paper drawings of acquired IP into SolidWorks CAD format and operated CNC Machines.

Education

M.S. in Computer Engineering, Weber State University Fall 2024 – Spring 2027 (anticipated)
- Fall 2024 courses: ECE 3610 "Digital Systems", ECE 1270 "Introduction to Electrical Circuits"
- Cumulative GPA of 4.0
- Spring 2025 courses: ECE 3710 "Embedded Systems", ECE 2260 "Fundamentals of Electrical Circuits", ENGR 2240 "Dynamic Systems Engineering"

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 a measurement to compare consistency of AI 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