

Jacob Johnson

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Overview

Fluent in Python, proficient with NumPy library, familiar with Flask library
Familiar with VHDL, Java, C#, HTML and assembly
Native English Speaker, Proficient at German, Basic Spanish

Work Experience

Math/CS tutor for Athletes at Weber State University (20hrs/wk) August 2025 – Present
I tutor student athletes on topics in Math/Computer Science courses.

Cashier at Smiths Food and Drug (40hrs/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I meticulously labeled detailed historical documents for use in AI training.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 Tife, BSA (40+hrs/wk) June 2021 - July 2021
I maintained pool equipment and supplies, taught swimming and water rescue skills, and lifeguarded.

Production+Picking Team Member 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.

SolidWorks Designer and Machinist at Clean Machine (40hrs/wk) January 2016 – September 2017
I translated paper drawings of acquired IP into SolidWorks CAD format and operated CNC mills and lathes.

Education

M.S., Computer Engineering Weber State University, Fall 2024 - Spring 2027
Cumulative GPA of 4.0
Recipient of a *ECE Department Service Scholarship* for implementing homeworks into an in-house online homework system.
Courses Include: ECE 3610 “Digital Systems”, ECE 3710 “Embedded Systems”

Incomplete Ph.D., 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., Linguistics + Computer Science Minor University of Utah, Spring 2020 - Spring 2023
Recipient of *University of Utah College of Humanities Research Award* and *Allan A & Renee Wright Hagander Book Award*
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 MITSL₂ 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)*” -I substantially contributed to developing the interface for data collection in an online study

Technology-Relevant Personal Experience

I run a home server and self-host/maintain an Immich photo server, a Minecraft server and have hosted several custom web servers.

I set up a fleet of laptops for use by the charity Nurturing Nations at a school and library in Ghana.

I have built my own PC and have performed repairs and upgrades on my own laptops and those of my friends and family.