

# Jacob Johnson

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## *IT-Relevant Personal Experience*

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### **Hardware Experience**

- I am running a Dell Poweredge R720 Rack Server and self-host an Immich photo server, a Minecraft server, as well as a server for “Beryllium”, a custom social media site I am developing.
- I built my personal Windows computer in 2022 and have since upgraded the storage. I set it up to use Windows Remote Desktop.
- I bought seven used Dell 3350s in 2022 and have performed many hardware improvements, including upgrading SSDs and RAM, replacing Wi-Fi cards, etc. Some of these I have sold to friends and family, others I have used as personal laptops, others I have used as servers, etc.

### **Software Experience**

- I have used Windows repair to reinstall windows while retaining files, and Macrium to transfer Windows installations to larger drives.
- I have created fresh installations of Windows, Linux Mint, Arch Linux, and TrueNAS.
- I have hosted and maintained an Immich photo server, Minecraft Servers, Apache Web Servers, VSCode code servers and have a decent grasp of networking.
- I am expert in Python and linux, proficient in Java/C#, Windows (including Microsoft Office Products), git, and LaTeX and familiar with bash, C/C++, and docker.

## *Work Experience*

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**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- I developed software to aid in rigorous labeling of detailed historical documents for use in AI training.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*

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**M.S. in Computer Engineering, Weber State University** Fall 2024 – Present

- Currently taking Electrical Engineering Prerequisites: ECE 3610 “Digital Systems”, ECE 1270 “Introduction to 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 6353 “Deep Learning”

**“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<sub>2</sub><sup>2</sup> 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