

Jacob Johnson

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IT-Relevant Personal Experience

Hardware Experience

- I am running a Dell Poweredge R720 Rack Server and self-host an Immich photo server and 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 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

Teaching Assistant at University of Utah Kahlert School of Computing Fall 2021 – Spring 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
- I honed customer service skills and the ability to explain things accurately and helpfully

Assistant Aquatics Director at Camp Tifie, BSA

Summer 2021

- I maintained pool equipment, taught swimming and water rescue skills, and performed lifeguarding
- I used customer service and explanation skills for interacting with campers, and physical strength/endurance for equipment maintenance and lifeguarding

Production and Picking Associate at Loftus International

May 2020 – March 2021

- I assembled and packaged products and selected products from inventory for orders
- I used physical coordination for assembling small parts, and gained inventory management and navigation skills

Education

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 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 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)” (Studies in Second Language Acquisition, March 2024)

- I substantially contributed to developing the interface for data collection in the online study