Ben Gubler – Machine Learning Intern
bengubler.com | github.com/nebrelbug

EDUCATION

Brigham Young University   Provo, UT
B.S. in Machine Learning, B.A. in Arabic Language   Expected May 2027
- Cumulative GPA: 3.93/4.0
- Full-tuition Heritage Scholarship from BYU
- Relevant Coursework: Software Engineering (CS 235, 240); Artificial Intelligence (CS 474)

Karl G. Maeser Preparatory Academy   Orem, UT
- ACT — 36, GPA — 3.95   Aug 2016 – May 2020

WORK EXPERIENCE

Perception, Control, and Cognition Lab (BYU)   Provo, UT
Research Assistant   Mar 2023 – Present
- Used SLURM, Docker, and enroot to train models on a supercomputing cluster of 8 nodes and 80 A100 GPUs
- Wrote a training loop to fine-tune Meta's LLaMA 70B using only 8 GPUs by utilizing FSDP
- Designed and executed experiments using LLMs to simulate human respondents and evaluate their perspectives

Oncurrent, Inc.   Lindon, UT
Software Tester   Jul 2020 – Oct 2020, Dec 2022 – Mar 2023
- Wrote automated tests using Cypress to test our web application
- Manually tested the application, filed 300+ issues, and contributed fixes

PROJECTS

Eta (eta.js.org) — open-source JS template engine   2020 – Present
- Written in TypeScript — CI through GitHub Actions runs automated testing and code coverage reports
- Over 1,000 GitHub Stars and 350,000 weekly downloads — powers Facebook's Docusaurus doc generator

Personal website (bengubler.com)   Jun 2022
- Built using Next.js 13 (App Router), Tailwind, MDX — perfect PageSpeed score

Other   Jun 2022
- decline.vercel.app — web app for practicing Czech/Slovak/Russian declension patterns — Next.js PWA w/ Tailwind
- npm-to-yarn — npm package to convert npm CLI commands to Yarn and vice versa
- tictactoe.bengubler.com — AI tic-tac-toe program built using TensorFlow.js (created as a teenager so low-quality code)
- Splashpad — Chrome extension to turn the new tab page into a customizable dashboard

SERVICE

The Church of Jesus Christ of Latter-day Saints   Texas; Czechia; Slovakia
Volunteer Representative   Oct 2020 – Nov 2022
- Organized and taught free English classes
- Helped Jihlava government process travel documents of Ukrainian refugees entering the Czech Republic

Kids Who Code   Provo, UT
Volunteer Teacher   Mar 2023 – Jul 2023
- Taught free weekly programming lessons to elementary-age children

ADDITIONAL

Technical Skills:
- Web development (advanced): Node.js, JavaScript, TypeScript, React, Next.js, Vite, Tailwind, HTML/CSS
- Machine learning: PyTorch, HuggingFace Transformers, HuggingFace Accelerate, FSDP
- Other: Ubuntu, Git, Bash, Docker, enroot, SLURM, Python, C++, Rust, Java, GitHub Actions

Languages: Fluent in English, Czech; Conversational Proficiency in Slovak; Beginning Proficiency in Russian
Awards: AP Scholar Award (2019); Philo T. Farnsworth Governor's Award for innovation (2020)
Hobbies: Classic literature, rock climbing, open-source, poetry, backpacking, pickleball, language learning
Courses: "Neural Networks: Zero to Hero" by Andrej Karpathy