Ben Gubler

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EDUCATION

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

WORK EXPERIENCE

Research Assistant   Mar 2023 – Present
Perception, Control, and Cognition Lab (BYU)   *Provo, UT*
- Used SLURM, Docker, and enroot to train models on a 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

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

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

PERSONAL PROJECTS

- **Eta (eta.js.org)** — open-source JS template engine
  - Written in TypeScript
  - Automated testing and code coverage reports using CI on GitHub Actions
  - 1K+ GitHub Stars and 450K+ weekly downloads; powers Facebook's Docusaurus doc generator
- **Personal website (bengubler.com)**
  - Built using Next.js 13 (App Router), Tailwind, MDX; perfect PageSpeed score
- **decline.vercel.app** — app for practicing Slavic language declension patterns; Next.js PWA w/ Tailwind
- **npm-to-yarn** — npm package to convert between npm and Yarn CLI commands
- **tictactoe.bengubler.com** — AI tic-tac-toe program built using TensorFlow.js (low-quality since created as a teen)
- **Splashpad** — Chrome extension to turn the new tab page into a customizable dashboard
- **tinylingo.com** — app for language learning using parallel texts (translations generated by AI)

SERVICE

Volunteer Service Representative   Oct 2020 – Nov 2022
The Church of Jesus Christ of Latter-day Saints   *Texas; Czechia; Slovakia*
- Organized and taught free English classes
- Volunteered to help Jihlava government process travel documents of Ukrainian refugees entering Czechia

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

ADDITIONAL

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
High School: ACT — 36, GPA — 3.95