

# Ben Gubler

[hello@bengubler.com](mailto:hello@bengubler.com) | [bengubler.com](https://bengubler.com) | [github.com/nebrelbug](https://github.com/nebrelbug) | [linkedin.com/in/ben-gubler](https://linkedin.com/in/ben-gubler)

## EDUCATION

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### B.S. in Machine Learning, B.A. in Arabic Language

Brigham Young University

May 2027

Provo, UT

- Cumulative GPA: 3.93
- Full-tuition Heritage Scholarship from BYU
- Relevant Coursework: Software Engineering; Advanced Artificial Intelligence (CS 474)

## WORK EXPERIENCE

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### Artificial Intelligence Research Assistant

Perception, Control, and Cognition Lab (BYU)

Mar 2023 - Present

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

Oncurrent, Inc.

Jul - Oct 2020, Dec 2022 - Mar 2023

Provo, 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

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**Web Development:** 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

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### Eta ([eta.js.org](https://eta.js.org)) | TypeScript

Mar 2020 - Present

- Automated testing and code coverage reports using CI on GitHub Actions
- 1K+ GitHub Stars and 500K+ weekly downloads; powers Facebook's Docusaurus doc generator

### Personal Website ([bengubler.com](https://bengubler.com)) | Next.js 14, Tailwind, MDX

Mar 2017 - Present

- My personal website, where I post about languages and artificial intelligence

### Decline App ([decline.vercel.app](https://decline.vercel.app)) | Next.js, PWA, Tailwind

Mar 2022

- App for practicing Czech, Slovak, and Russian declension patterns

### TinyLingo ([tinylingo.com](https://tinylingo.com)) | Next.js, Supabase, Stripe, Tailwind, Zod, OpenAI

Nov 2023 - Present

- App for language learning using parallel texts (translations generated by AI)

### npm-to-yarn ([npmjs.com/npm-to-yarn](https://npmjs.com/npm-to-yarn)) | TypeScript

Mar 2020 - Present

- npm package to convert between npm and Yarn CLI commands

### 'Tic-Tac-Too' ([tictactoe.bengubler.com](https://tictactoe.bengubler.com)) | TensorFlow, TensorFlow.js

Jan 2019

- AI tic-tac-toe program built using TensorFlow.js (low-quality since created as a teen)

## SERVICE

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### Volunteer Service Representative

The Church of Jesus Christ of Latter-day Saints

Oct 2020 - Nov 2022

Texas; Czechia; Slovakia

- Organized and taught free English classes
- Volunteered to help Jihlava government process travel documents of Ukrainian refugees entering Czechia

### Volunteer Teacher

Kids Who Code

Mar - Jul 2023

Provo, UT

- Taught free weekly programming lessons in Python to elementary-age children

## ADDITIONAL

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**Languages:** Fluent in English, Czech; conversational in Slovak; basic proficiency in Russian, Arabic

**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