

NAZYM ZHIYENGALIYEVA

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EDUCATION

Minerva University

B.S., Computational Sciences (Math track), GPA: 3.6 / 4.0

May 2027

San Francisco, CA

Coursework: Linear Algebra, Real Analysis, Bayesian Statistics, Optimization Methods, Statistical Mechanics, Quantum Mechanics, Data Structures & Algorithms

EXPERIENCE

Gusto

May 2026 – Present

Software Engineering Intern

San Francisco, CA

- Building features for Otto, an AI-powered internal assistant for customer support teams, on the Unified Service Platform; stack includes Ruby on Rails and React/TypeScript.

Minerva Math Modeling Research Group

Jan 2026 – Present

Research Intern (Fluid Dynamics & Computational Modeling)

Remote

- Deriving weak formulations and residual equations for incompressible Navier–Stokes under Arbitrary Lagrangian–Eulerian kinematics; implementing and validating FEM solvers against theoretical results.
- Developing a Python mesh generator for spine-based free-surface meshes, including node numbering and local-to-global index mapping.

Nutrix AI

Oct 2025 – Dec 2025

Software Engineering Intern

Buenos Aires, Argentina

- Designed and shipped 4 end-to-end product features across Go (GraphQL backend) and React/TypeScript frontend, including gamification systems and saved recipe workflows.
- Integrated LLM-powered recipe generation from user-provided inputs, iterating on prompt structure and output reliability to meet UX constraints.
- Debugged production features by tracing resolver logic, frontend state issues, and Firebase integrations.

Minerva University

Sep 2025 – Apr 2026

CS113 Linear Algebra Teaching Assistant

Remote

- Hosted weekly office hours and mock oral exams for 100 students, covering eigendecomposition, inner product spaces, and proof-writing; graded assignments and provided structured written feedback.

Jubo Health Technologies

Sep 2024 – Dec 2024

Software Engineering Intern

Taipei, Taiwan

- Built N-Copilot, an LLM-powered query system enabling natural language retrieval over HR and EHR datasets covering workforce metrics, financial data, and operational KPIs across a platform serving 50,000+ residents.
- Designed the natural language-to-database pipeline using an LLM + GenAI Gateway architecture; implemented domain-specific query functions and validated each module against test suites before deployment.

PROJECTS

GPT from Scratch | *Python, PyTorch* | [GitHub](#)

Feb 2025 – Jan 2026

- Implemented a transformer language model from scratch in PyTorch, covering tokenization, multi-head self-attention, positional encoding, and autoregressive training.
- Trained on a literary dataset (poetry and songs), documenting the full mathematical derivation and implementation.

Personal Website | *Three.js, Blender, JavaScript* | [nazym.space](#)

Jun 2025 - Sep 2025

- Built an interactive 3D personal website featuring a navigable and interactive room environment; modeled assets in Blender and rendered them in the browser using Three.js.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, TypeScript, Go, Ruby, Swift
- **Frontend & Backend:** React, Three.js, HTML, CSS, Node.js, Ruby on Rails, FastAPI, GraphQL
- **Databases & Tools:** PostgreSQL, MySQL, MongoDB, Firebase, Git, Figma, Vercel, Postman
- **AI & ML:** PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas, LangChain, Langfuse