

# Z (Zana) Bajraktari Schwab

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## Education

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### Bachelor of Arts, B.A. in Physics & Computer Science

Expected May 2027

Grinnell College

Grinnell, IA

- Cumulative GPA: 3.61/4.00
- *Selected Coursework:* Solid State Physics, Waves and Optics, Classical Mechanics, Differential Equations, Data Structures & Algorithms, Computer Organization & Architecture

## Experience

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### Research Intern

Summer 2025

Pathway.AI

Palo Alto, CA

- **Developed AI app generating Nature-style papers from unstructured notes** using multi-agent Python architecture with KV-caching and Streamlit frontend
- **Processed thousands of open-access Nature papers** into a clean training dataset via automated cleaning and parsing pipeline
- **Deployed containerized local LLM** in Docker after researching optimal models for specific resource constraints
- **Conducted literature review** to support organizational research and stay current with oscillatory & state-space ML architectures and distributed coordination methods

### Physics Tutor & Grader

2025 (Ongoing)

Grinnell College

Grinnell, IA

- Tutored college students individually and in groups for introductory E&M
- Collaborated with faculty to create educational resources
- Graded Differential Equations, Linear Algebra, and Physics II

### Investment Analyst/SWE

Summer 2024

Glasswing Ventures

Boston, MA

- Developed a GenAI-based data sourcing pipeline in Python
- Advised investment team on technical feasibility of startup proposals

## Leadership & Service

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### Student Member, Committee for Academic Standing

2025 (Ongoing)

Grinnell College

Grinnell, IA

- Reviewed and voted on academic honesty and standing cases per institutional policy

### Panelist & Organizer, AI Ethics

Apr. 2025, Dec. 2025

Grinnell College

Grinnell, IA

- Participated in faculty-student discussions on ethical use of genAI in science and humanities

## Programming Languages

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- Python, with experience in ML/AI (PyTorch, JAX), data pre-processing, physics modeling (SciPy)
- C, with experience in computational physics (modeling nonlinear dynamics + chaotic systems)
- Others: Java, SQL, R, Racket, Haskell