

Zachary Fried

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Education

University of Maryland

B.S. in Computer Science, second bachelor's degree; GPA: 3.97

- Relevant coursework: Computer Systems, Organization of Programming Languages, Algorithms, Discrete Structures

College Park, MD

Expected May 2028

Oregon State University

B.S. in Chemistry

Corvallis, OR

Sept. 2015 - Sept. 2019

Experience

Textron Specialized Vehicles

June 2026 - Present

PACE Software Engineering Intern

Augusta, GA

- Build and browser-test an internal configuration web application with another intern using HTML, CSS, Knockout.js, JavaScript, C#, SQL, Git, and Azure DevOps.
- Implement guided workflow logic that maps user selections to required backend outputs, reducing reliance on manual reference materials.
- Completed the initial requested feature scope in under two weeks, ahead of management expectations, and partnered with stakeholders to define additional requirements.
- Investigate and document integration points for a C#/.NET backend feature in an existing fleet-management platform.

Axle Informatics / National Institutes of Health (NIH)

May 2024 - Aug. 2025

Linux Administrator and Data Processor (Contractor)

Baltimore, MD

- Developed Bash, Python, and MySQL scripts to automate backups, monitor file-system integrity, support data processing, and resolve system overloads in Linux-based research infrastructure.
- Deployed and managed Docker containers for web applications and authentication services supporting research computing workflows.
- Authored installation guides and system-configuration documentation adopted by multiple research labs.

National Institute on Drug Abuse (NIDA / NIH)

Aug. 2022 - May 2024

Postbaccalaureate Research Fellow

Baltimore, MD

- Engineered Python and MySQL workflows to normalize, tokenize, and extract dictionaries from large-scale Reddit datasets used in computational social science research.
- Optimized scripts transforming smartphone sensor data for integration with a digital-biomarker analysis platform and built an OpenAI API-assisted tool for meta-analysis paper screening.

Projects

KNAT Deployment Toolkit | *Linux, Bash, Docker, research infrastructure*

GitHub

- Built Bash and Docker deployment tooling and recovery documentation supporting migration of a 7+ TB KNAT research-imaging platform across Linux environments.

Paper Meta-Analyzer | *Python, OpenAI API, PDF processing, MySQL*

GitHub

- Built a Python pipeline that ingests Zotero and PDF content, evaluates papers against review criteria with the OpenAI API, and stores structured screening results in MySQL.

Publications

Co-author, "Evaluating generative AI responses to real-world drug-related questions," *Psychiatry Research*, 2024.

Co-author, "Exploring Sexualized Cannabis Use: A Linguistic Analysis of User Experiences," presented at IC2S2, ICWSM, and CPDD, 2024.

Technical Skills

Languages: Python, Java, C#, SQL, Bash, JavaScript, HTML/CSS

Web/Data: Knockout.js, MySQL, SQLite, API integration, data pipelines

Tools: Git, Azure DevOps, Visual Studio, Docker, Linux