

Tutu Mtetwa

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EDUCATION

Truman State University

Bachelor of Science, Computer Science

Kirksville, MO

Expected December 2026

- Concentrations: Software Design and Engineering, Systems Programming, Artificial Intelligence

SKILLS

Programming Languages: TypeScript, JavaScript, C++, Java, Python, SQL, Swift, Haskell, Bash, C, HTML, CSS

Skills: Git, DSA, React, Remix, Node.js, Vitest, Playwright, Azure, AWS, Flask, Django, Flutter, MySQL, Firebase

PROFESSIONAL EXPERIENCE

LinkedIn

Software Engineering Intern

Mountain View, CA

May 2026 – Aug 2026

- Designed and shipped a per-user OAuth 2.0 (3LO) Jira integration for an internal case-management tool, letting support engineers run the full ticket lifecycle (read, edit, close, comment, create) without leaving the app.
- Built a secure AES-256-GCM encrypted token store with proactive refresh, rotating-token handling, and single-flight coalescing to prevent double-spend under concurrent requests.
- Shipped 15+ reviewed pull requests backed by 100+ automated tests (Vitest, MSW, Playwright), validated end to end against live Atlassian data.

Google Software Engineer Program (G-SWEP)

Mentee

New York, NY - Remote

Oct 2024 – Dec 2024; Jul 2025 – Oct 2025

- Selected twice for a competitive 10-week program with 1:1 Google SWE mentorship in algorithms, data structures, and interview prep.

Sponsors for Educational Opportunity

Tech Developer Intern

New York, NY

May 2024 – Aug 2024

- Completed 300+ hours of full-stack training in Flask, React, and core algorithms, gaining front-end and back-end proficiency.

Matamba

Database Administrator Intern

Gweru, Zimbabwe

Sep 2021 – Apr 2021

- Improved database performance 15% via query optimization with SQLAlchemy and automated backups using Psycopg2.
- Cut data entry errors 13% with Pandas cleaning and validation scripts, boosting report accuracy.

ZETDC

Software Engineer Intern

Harare, Zimbabwe

Jan 2021 – Jul 2021

- Cut server load 18% at peak by implementing Redis caching for frequently accessed data.
- Ran user feedback sessions and shipped Django UI/UX improvements, cutting usability support tickets 12%.
- Led code reviews and fixed 11+ security vulnerabilities, using Bandit to enforce secure coding.

PROJECTS

BreadBook (React, Tailwind CSS, Firebase) <https://bankroll-7dd6f.web.app/>

Aug 2025

- Built a full-stack trading journal with an interactive performance dashboard.
- Engineered a serverless backend for real-time data and user authentication.

CodePulse (React, Firebase) <https://devconnect-forum.web.app/>

July 2025

- Created a real-time developer forum with interactive user features.
- Secured data with Firebase Authentication and enabled real-time updates.

SmartNotes (Flask, PostgreSQL, Nginx) <https://notegrid.tech/>

May 2025

- Built an AI note app with semantic search and summarization.
- Deployed on Linux with HTTPS and secure authentication.

LEADERSHIP AND INVOLVEMENTS

ColorStack; Microsoft TEALS (Volunteer Coding Instructor); NSBE; Brilliant Black Minds (Fellow)