

TJ RAKLOVITS

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PROFILE

Python backend developer with strong experience designing scalable APIs, analytics platforms, and database-driven applications. Skilled at reducing system bottlenecks and improving client workflows. Complementary full-stack experience with SvelteKit, React and Angular.

EDUCATION

Kent State University

Bachelor of Sciences, Computer Science
Dean's List: Fall 2024, Spring 2025

Kent, OH

Aug 2024 - May 2027

EXPERIENCE

IT Support Technician

College of Arts and Sciences

Nov 2025 - Present

Kent State University, OH

- Provide technical support to faculty, researchers, and graduate assistants across 20 buildings and 180+ classrooms.
- Resolve hardware/software issues including device setup, network connectivity, and peripheral configuration (printers, projectors, lab equipment).

Freelance Developer

Remote

May 2022 - Present

Medina, OH

- Architected and launched a blog platform, boosting organic traffic by 35% and reducing bounce rates by 20% within 90 days.
- Developed custom academic content search solutions for researchers to reduce manual query refinement time by building a logical query parser, improving query accuracy by 45% and reducing average search time from 3 minutes to 30 seconds.

SKILLS

Languages: Python, TypeScript, JavaScript, C++, Dart, Lua

Backend: Flask, Django, FastAPI, Express.js

Frontend: Svelte, Angular, React, Next.js, Tailwind CSS

Databases: DynamoDB, Firebase (Firestore/RTDB), PostgreSQL

PROJECTS

[narr0w](#) | Python, FastAPI, TypeScript, React, n8n

- Engineered narr0w, an automated ticket triage system that reduces IT support overhead by routing, assigning, and resolving support and DevOps tickets.
- Built specialized AI agents capable of analyzing engineering tickets, executing code changes, and providing solutions without human intervention, reducing resolution time for eligible issues.

[Prismo](#) | Python, Flask, TypeScript, Angular

- Built Prismo, an adaptive learning platform that leverages AI to generate personalized lessons, quizzes, and code exercises for students.
- Developed a Flask backend integrating AWS Cognito for authentication, DynamoDB for data storage, and Bedrock for AI-driven content generation.
- Architected and implemented a secure code execution service supporting multiple programming languages (C++, Python, JavaScript, Java) with isolated sandboxing and real-time feedback

[Sugar Programming Language](#) | Python, Lark

- Designed and implemented Sugar, a statically-typed, object-oriented, interpreted programming language focused on readability, simplicity, and expressive syntax.
- Developed a full parser, AST, and interpreter in Python, enabling robust language features including classes, interfaces, error handling, and concurrency primitives.

[EduSynapse](#) | TypeScript, Next.js, Tailwind CSS, Prisma

- Co-founded and scaled an intelligent learning platform that personalizes education for 50+ active users, boosting user GPA by ~7% semester over semester.
- Built scalable backend and frontend systems to support real-time analytics and user growth.

[Tracy's Karate Practice App](#) | TypeScript, React Native, Firebase

- Developed an app to allow dojo students to log drills, technique practice, and compete with others on a school-wide leaderboard

ACHIEVEMENTS

[NexHacks 2026](#) | Jan 2026

The largest hackathon in the eastern United States. Won first place in TheTokenCompany track, second in DevSwarm track

[Hack OHI/O 2025](#) | Oct 2025

The largest hackathon in Ohio. Won AI Studio track with Prismo

[Kent Hack It CTF](#) | Oct 2025

The first Capture the Flag hosted by HacKSU. 3rd overall, 2nd individual

[Kent Hack Enough](#) | Feb 2025

The longest-running student-run hackathon in Ohio. Won 3rd overall with EduSynapse

LEADERSHIP

Club Organizer

HacKSU

Oct 2025 - Present

Kent, OH

- Automated participant notification system for hackathons, reducing coordinator workload by 75% per student.
- Lead meetings and lessons for 60+ club members, developing curriculum on backend frameworks (Flask, Express.js, FastAPI)

Kenpo Karate Instructor

Tracy's Karate Studio

May 2018 - Present

Medina, OH

- Taught students of all ages and skill levels, building discipline, confidence, and physical fitness.
- Mentored junior instructors and contributed to curriculum for advanced techniques.