

Tim Kwartler

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Summary

Computer science B.S. / M.S. graduate of WPI with skills in full-stack software development, leadership experience in large student organizations, and a passion for building impactful, collaborative software solutions.

Education

Worcester Polytechnic Institute | Worcester, MA
Computer Science | 05/2026

- Master of Science | GPA: 4.0
- Bachelor of Science | GPA: 3.79
- Study Abroad | Venice Project Center, Italy | 05/2024

Experience

7Factor | Worcester, MA
Software Engineering Intern | 09/2025 - 04/2026

- Performed a full-scale rewrite of a legacy internal alerting platform, transitioning it to a robust webhooks-as-a-service model for high-profile client systems with 99.99% uptime.
- Built a centralized management UI and custom data transformation engine, enabling support for dynamic request/response formats and seamless event delivery across GitHub, AWS, Discord, and Slack.
- Hardened system security by implementing a hashed API key authentication layer, resolving 5 vulnerabilities, and improving database security settings.
- Developed complex business logic using optimized recursive functions to handle nested arrays and objects.

Independent Contractor | Boston, MA
Livestream Production Manager | 09/2022 - 12/2025

- Managed end-to-end livestream production and a team of five to deliver high-profile esports events, including Red Bull Campus Clutch Northeast Regionals, Northeast Series Invitational, and 2025 World Cube Association USA Nationals.

Projects

Ripcord • Architected an [open-source RCON application](#) for Minecraft server management as a personal project, enabling full server control without a modified client or server, with features including server start commands, auto-restart, and console synchronization. Launched a Python-based Discord integration to enable server communication and automation.

Kermit the Timer • Designed a [full-stack Next.js web app](#) for Rubik's Cube solve tracking, featuring OAuth 2.0, persistent storage with MongoDB, scramble generation, and user video capture. Implemented a responsive Tailwind frontend with multiple themes and interactive D3.js visualizations for real-time analytics and solve trends.

Tables4U • Programmed a full-stack restaurant reservation management system with 19 features while learning Git and implementing AWS services including RDS, Lambda, and S3.

Skills

JavaScript, Python, Pandas, Java, C++, SQL, React, Next.js, Node.js, Tailwind CSS, AWS, Git, MongoDB, GitHub Copilot, REST APIs, Jira, Database Systems, SaaS Applications, Adaptability, Growth Mindset, Teamwork, Agile

Activities

President | WPI Rubik's Cube Club | 2022 - 2026 | Led a 20+ member organization by hosting weekly meetings and driving membership growth through creative outreach initiatives.

Vice President | WPI Esports Club | 2022 - 2026 | Managed an 11-person leadership team to oversee marketing, design, events, and recruiting for one of WPI's largest student organizations.