

Ryan Tobin

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EDUCATION

Temple University

Bachelor of Science in Biology, Bioinformatics Focus

Philadelphia, PA

August 2021 - May 2025

EXPERIENCE

Institute for Genomics and Evolutionary Medicine (IGEM)

Research Intern

Philadelphia, PA

August 2022 - Present

- Designed and implemented a bioinformatic pipeline for tumor progression and evolutionary history using Python and R (Tobin et al., 2025 - In Review)
- Analyzed large-scale sequence data sets to identify evolutionary patterns.
- Utilized SQL to manage and query biological databases.
- Created visualization and statistical models and summaries to present findings in meetings.

Full Stack Software Developer

Independent Project / IGEM

Philadelphia, PA

August 2022 - Present

- Helped develop a responsive web application using React and Node.js to manage dynamic user data
- Created a PostgreSQL database schema with relational models, indexes, and joins to efficiently store and query data
- Integrated Material UI and Tailwind CSS for a modern and responsive UI.
- Wrote unit and integration tests using Supertest to ensure reliability and catch edge cases in both frontend and backend logic.
- Used Docker for containerization.

SKILLS & CERTIFICATIONS

Skills: Python, R, Javascript, Java, Node.JS, React, SQL, Git/Github, KNIME, A/B testing, Matplotlib, Microsoft Office and Excel, Critical Thinking, Leadership, Teamwork, Time management.

Certifications: KNIME L1