# Matthew Epshtein

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## Education

**University of Washington** — Seattle, WA
*Direct Admit to Allen School, Computer Science Major* — *Sep. 2025 – June 2029*

**Inglemoor High School** — Kenmore, WA
*Graduated cum laude; Unweighted GPA: 3.98; SAT: 1540; IB Diploma: 37/45* — *Sep. 2021 – June 2025*

## Experience

**Researcher** — June 2024 – Present
*UW Systems Biology Lab* — *Seattle, WA*

- Designed and developed devops tools for systems biology
- Developed an LLM-based pipeline for analysis and summary of systems biology papers
- Developed and implemented a custom low-cost database for chemical network models
- Scaled said database to over 10,000 models

**Flight Crew** — July 2024 – Present
*Sky Zone* — *Mountlake Terrace, WA*

- Assisted guests with check-in process
- Operated POS, park dashboard, and cash register systems
- Ensured guests had proper jump tickets, wristbands, and SkySocks
- Sold memberships and premium SkySocks to guests

**President and Programming Lead** — Sep. 2021 – June 2025
*Inglemoor Robotics Club* — *Kenmore, WA*

- Organized and facilitated day-to-day and long-term club activities
- Managed club social media accounts and recruitment activities, leading to 40+ new members
- Constructed software which ran on 4 different robots across 3 years
- Created utility library for robot programming, including from-scratch swerve-drive software

## Projects

**Sidequest** | *Fullstack Android app* — July 2025 – September 2025

- Created an ARG-style game about racing other users to a random destination
- Developed a REST API and backend in Python using Flask to manage game state
- Used JWT to create a custom user authentication and session service
- Developed an Android app in Kotlin Compose to serve as game frontend

**OscillatorDatabase** | *Free web database for chemical network models* — August 2024 – Present

- Developed a free and open-access database to store chemical network models via GitHub
- Created a Python package for database query and download operations
- Create a web interface using Vanilla tech stack for database query operations
- Used Pytest and Github Actions for test and maintenance automation

**Reefscape2025** | *Software for FRC Robotics* — May 2018 – May 2020

- Developed software which ran on an FRC competition robot
- Coordinated drivebase and actuator motors to ensure efficient robot operation
- Worked with camera and sensor inputs to create an auto-targeting routine
- Created autonomous movement system using the A* algorithim

## Technical Skills

**Languages**: Java, Kotlin, C Sharp, Python, C/C++, JavaScript, HTML/CSS, Rust
**Frameworks**: Svelte, Flask, WPILib, Kotlin Compose, Material-UI, OpenCV, BootstrapCSS
**Developer Tools**:Git, VS Code, Visual Studio, PyCharm, IntelliJ, Android Studio
**Libraries**: pandas, NumPy, pytest, asyncio, itertools, geopy, Oauth2