

# Dathan Lang

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## Education

### Rensselaer Polytechnic Institute

Troy, NY

Degree Candidate in Computer Science and ITWS

Expected May, 2028

GPA: 3.95/4.00

Relevant Coursework: CSCI 1200 (Data Structures), MATH 2010 (Multivariable Calculus & Matrix Algebra), BIOL 1016 (Biology Computational Lab), ITWS 1100 (Introduction to IT and Web Science)

### Wissahickon High School

Ambler, PA

GPA: 3.91 Unweighted/4.99 Weighted

May 2024

Rensselaer Medalist, 2x US Candidate for World Youth Scrabble and ranked 3rd in NASPA Scrabble Youth Rankings, Woody Herman Jazz Award Winner, Lead Web Developer and Analyst of FRC Team 341 Miss Daisy, Lead Pianist of One O'Clock Jazz Band, and Co-Founder of Chess Team

## Experience

### Opex Corporation

Moorestown, NJ

Software Engineering Intern

05/2025 – 08/2025

- Gained experience developing encryption algorithms utilizing AES, and Blowfish.
- Enhanced Falcon+® UI to streamline client logs and improve operator efficiency
- Documented and patched several C++ bugs with MFC library for the CertainScan®

### Rensselaer Polytechnic Institute

Troy, NY

Web Developer

04/2025-Present

- Developed a college presentation assistant program using PHP and JavaScript.
- Under the supervision of Professor Jidong Xiao, collaborated in a web development team to enhance UI/UX design for both the website and app

### University of Pennsylvania

Philadelphia, PA

Supervised Data Scientist

10/2023-05/2024

- Created a Java program to run a sample of 10,000 AI generated Scrabble games, and collect and store detailed statistics of each game within google spreadsheets.
- Analyzed underlying patterns and behaviors of Scrabble AI and authored a research paper on the distribution and findings.

## Skills

### Programming Languages:

(Fluent): C++ , C (5 Years), HTML, JavaScript, CSS (4 Years), Java (3 Years)

(Intermediate): Python, Dart, PHP, SQL, LaTeX, R and TypeScript

## Awards

Dean's Honor List (2024-2025), 3rd Place Lockheed Martin Code Quest (2021), 2x Princeton Scrabble Winner (2023-2024), AP Capstone Diploma (2024), Spanish Honor Society (2022-2023)

### Extracurricular Activities:

8th Street Jazz Orchestra(Lead Pianist), Rensselaer Music Association (Small Groups Manager & Publicity), Rensselaer Cybersecurity Collaboratory, RPI Eighth Wonder Dance Team (Youtube Crew)

**Interests:** data analytics, programming, web development, competitive scrabble, and jazz piano