

Thomas C. Bird

COMPUTER SCIENTIST · TROY, NY

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Education

Rensselaer Polytechnic Institute

Troy, New York

B.S. IN COMPUTER SCIENCE

Sep. 2021 - May 2025

- 3.18 Cumulative GPA; Rensselaer Leadership Scholarship; Dean's List; applied with **1540** SAT (**790M, 750E**)
- Relevant Coursework: *Data Structures; Algorithms; Computer Organizations; Principles of Software; Intro to Artificial Intelligence; Discrete Math; Multi-variable Calculus; Differential Equations*

Experience

Greek Row

Troy, NY

SECRETARY & PUBLIC RELATIONS MANAGER

2022-Now

- Planned agendas and scheduled weekly chapter meetings, filed rosters, took meeting minutes as secretary, and made bi-weekly publications.
- Managed media and social accounts, created numerous graphics and designs to gain publicity and awareness for fraternity events.

Student Government

San Rafael, California

CLASS PRESIDENT 2017-2019 & ALL SCHOOL PRESIDENT 2020

2017-2020

- Ran campaigns and was elected Class President three years in a row, later elected All School President.
- Managed various scholastic & social activities and gave speeches to the entire student body on several occasions.

Varsity Sailing

Tiburon, California

TEAM CAPTAIN

2017-2020

- Reinstated my high school's sailing team. Promoted the team to gain new members. Captained the sailing team for three years. Led teammates in various regattas across the California coast while managing fares and boat charters.

Projects

Rundom

Troy, NY

PROJECT LEADER & SOFTWARE DESIGNER

Sep. 2022-Now

- Lead development on an iOS application programmed in *Swift* with *Swift UI*, integrated location features with *Apple Maps API*, and connected online features to an updating database via *Firebase*.

Birdev

Troy, NY

FRONT-END DEVELOPER & DESIGNER

Sep. 2022

- Programmed and stylized my personal web-page with *HTML*, *CSS*, and *JavaScript* viewable at "birdev.net".

C Compiler

Troy, NY

PROGRAM DEVELOPER

Mar. 2022

- Wrote a basic compiler in *C* that processes and converts basic *C* code to *MIPS* instructions for *Assembly*.

Distance Field Generator

Troy, NY

PROGRAM DEVELOPER

Dec. 2021

- Developed in *C++*, utilizing a priority queue to generate heat maps around certain pixels of a .ppm image file.

Astromath

Troy, NY

SOFTWARE DESIGNER

Nov. 2021

- Developed a web-game with *HTML*, *CSS*, *JavaScript*, and *Python*, integrated updating leader board with *SQL*. Completed within 24-hours.

Honors & Achievements

2022 **Rensselaer Leadership Award**, Rensselaer Polytechnic Institute

Troy, NY

2020 **AP Scholar with Honor**, The College Board

Jackson Hole, WY

Skills

Technical: *C++*; *C*; *C#*; *Java*; *Python*; *Swift*; *Assembly*; *HTML*; *CSS*; *JavaScript*; *LaTeX*; *Git*; *Firebase*; *LLDB*; *Valgrind*; *JUnit*; *Unity*; *Dafny*