

# THOMAS WALTER

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## EDUCATION

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**Yale University**, New Haven, CT

Expected Graduation Dec. 2025

- *BS in Computer Science*
- *Relevant Coursework:* Algorithms, Systems Programming, Computational Intelligence for Games, Database Systems, Full Stack Web Development, Data Structures, Mathematical Tools for Computer Science, Introduction to Programming, Introduction to Computer Science, Real Analysis, Linear Algebra, Multivariable Calculus

**Frankfurt International School**, Frankfurt, Germany

Jun. 2020

- *International Baccalaureate:* 44/45 — *SAT:* 1600/1600

## TECHNICAL SKILLS

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- *Programming Languages:* Python, Java, C, C++, SQL, JavaScript, R, HTML, CSS, TypeScript, Racket, Rust
- *Tools:* React, Flask, Version Control (Git), Linux/Unix, TensorFlow, PyTorch, MATLAB, IoT Protocols & Standards

## WORK EXPERIENCE

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**Blenman Innovation Group**, *Student Researcher: Software Engineer*, New Haven, CT

Jan. 2025 — *present*

- Work 15 h/w developing software at BIG, a cancer research lab at the Yale School of Medicine
- Develop web application for hospitals, researchers, and clinics to view and understand patient data
- Ensure scalability and portability of the application, guaranteeing functionality across MacOS and Windows
- Interact with all tiers of the web-development stack, using SQL, R, Python, JavaScript, TypeScript, HTML, CSS

**Schneider Electric**, *Intern Firmware Servo Drives*, Marktheidenfeld, Germany

May — Aug. 2025

- Worked full-time on a team of 10 firmware engineers in an agile framework that included daily Scrum meetings, twice weekly exchanges on technical progress, and weekly iteration planning sessions
- Delivered individual programming and research projects on a three-week, iterative basis
- Researched client tools for configuration and testing of the team's communication applications, building an understanding of IoT communications specifications and protocols like OPC UA, TCP, UDP, UADP, MQTT
- Created applications and scripts for testing of the team's embedded systems application

**Jon Ossoff for U.S. Senate**, *Field Intern*, Atlanta, GA

Nov. 2020 — Jan. 2021

- Executed the campaign's daily virtual phone banks, with 50+ volunteers per shift
- Made 1200+ calls to Georgians, confirming volunteers ahead of their upcoming events and recruiting in total 559 new volunteer phone shifts, the most out of the 20-person intern class

**Nevada Democratic Coordinated Campaign**, *Fellow*, Las Vegas, NV

Sep. — Nov. 2020

- Facilitated the campaign's central Las Vegas Virtual Staging Location, along with two supervising organizers and one other fellow, familiarizing hundreds of new volunteers with campaign systems
- Administered 30+ virtual phone bank trainings, the most of any fellow, and hundreds of volunteer recruitment calls

## PROJECTS

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***Challenges in Development, Distribution, and Maintenance of Software Visualization Tools in Biology and Medicine***

- One of five authors on a paper to be published at the EuroVis 2025 Conference

**Dependency Visualizer**

- Tool written in Python to visualize dependencies of R projects built with R package manager 'renv'

## INTERESTS: CELLO PERFORMANCE

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- *Professors:* Ole Akahoshi (Yale School of Music), Hayoung Choi (Emanuel Feuermann Conservatory)
- *Orchestras:* National Youth Orchestra of Germany, Yale Symphony Orchestra
- *Competitions:* 1<sup>st</sup> Prize Frankfurt Regional and Hesse State Competitions, 2<sup>nd</sup> Prize German National Competition