

David Petre

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EDUCATION

The University of Chicago

Bachelor of Science in Computer Science, Bachelor of Arts in Economics

Chicago, IL

Expected, June 2025

Relevant Coursework: Theory of Algorithms, Linear Algebra, Introduction to Computer Systems, Investments, Discrete Mathematics, Statistical Models and Methods, Database Systems.

RSO's and Clubs: Philosophy Club, UChicago Socially Responsible Investment Group, CompileHer, Chicago Maroon - Operations

Honors and Scholarships: National Merit Scholar, CPS Full Tuition Merit Scholarship.

Walter Payton College Prep

High School Diploma

SAT I: 1550 (800 Math / 750 English)

Honors/Leadership: Illinois State Scholar, Varsity XC/TF, Captain FTC Robotics.

Chicago, IL

June 2021

PROFESSIONAL EXPERIENCE

Center for Spatial Data Science | Anselin Lab

Research Assistant / Intern

Chicago, IL

February 2023 – Present

- Leading the effort to update and modernize the codebase of Prof. Anselin's award-winning spatial analytic software GeoDa.
- Consulting with Prof. Anselin and a graduate intern to update the technology from a codebase utilizing C++ and primarily homemade libraries into a streamlined faster application utilizing Typescript and Rust and tools such as React and WebAssembly.

C&C Designs

Cofounder, Employee, Family Business

Chicago, IL

November 2021 – Present

- Cofounded a manufacturing firm with my father. Since starting the company, revenue has grown to over 90,000 dollars a year.
- Assisted in market research and product development, developed two new product designs that generated over \$20,000 in revenue.
- Manufactured, polished, and quality tested over 1500 clearance inserts on weekends during the school year. Personally handled customer service issues, compliance issues with Amazon, and interactions with suppliers.

Momentum Capital

PD Intern w/ UCSRIG

Chicago, IL

January 2023 – April 2023

- Worked closely with a team of four as a co-op intern to conduct market research into over 320 small businesses across the United States in order to provide SBA loans.
- Wrote minor python scripts that scraped data off of over 65 municipal and state Chambers of Commerce websites across the United States to save time when conducting research.

University of Chicago

Summer Session Residential Assistant (RA)

Chicago, IL

June 2022 – August 2022, June 2023 – August 2023

- Worked with a group of 26 Resident Assistants to help over 800 high school students attending UChicago's summer programs settle into summer camp life.
- Collaborated with 8 other RAs to act as tutoring and emotional aides for a house of over 120 students.
- Led over 20 programming events and 1 field trip with a cumulative attendance of over 200 students.

LEADERSHIP & ACTIVITIES

WPCP Robotics

Founder and Co-Captain

Chicago, IL

October 2017 – May 2020

- Founded the FTC Robotics team at Walter Payton as the only freshman on the team.
- Grew the organization over four years from a team of 6 and a budget of 500 dollars to a team of 24 with a budget of over 2000.
- Won the North Chicago Rookie Award in our inaugural season. (2017-2018) after ending up #2 seeded at our regional tournament.

SKILLS

Languages: Romanian, fluent. Mandarin Chinese: working knowledge.

Programming Languages: Proficient in Rust, C, Python, R, JavaScript, HTML/CSS. Working knowledge in Haskell, Golang, C++.

Libraries / Frameworks: Proficient in Tidyverse, React, Next.js, TailwindCSS. Working knowledge of NixOS, Pandas, NumPy.

Interests: Robotics, Poker Theory, Camus, Beekeeping, StarCraft, Brazilian Jiu Jitsu.