

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.

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

Honors and Scholarships: National Merit Scholar, CPS Merit / Need-based 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

Employee, Family Business

Chicago, IL

November 2021 – Present

- Helped my father establish a manufacturing business, growing it from zero to a company with over \$100,000 in yearly revenue.
- Assisted in market research and product development, working with Fusion360 to create 3D models of new products.
- Manufactured Clearance Inserts on weekends / during school year breaks. Assisted in packaging, delivery, and compliance with Amazon.

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 small businesses across the United States in order to provide SBA loans.
- Wrote minor python scripts that scraped data off 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. Working knowledge in Haskell, Golang, C++.

Libraries / Frameworks: Proficient in Tidyverse, React, NextJs. Working knowledge of ROS, Nix, NixOS, Pandas, NumPy.

Interests: Robotics, Romanian Cooking, Poker Theory, Camus, Beekeeping, Starcraft.