Andrei Pascu

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Education

YALE UNIVERSITY   *New Haven, CT*   August 2019 – May 2023
- Bachelor of Science in Computer Science and Economics, 3.75 GPA
- Undergraduate Learning Assistant. *Introduction to Computer Science—CPSC 201, Fall 2020*
    - Managing a class of 180 students and holding office hours 7hr/week to answer after-class questions.
    - Assisting students with coding assignments and programming concepts taught in the course, such as theoretical foundations of computing, algorithm design and problem-solving strategies.

Experience

Yale Department of Economics, Research Assistant.   *New Haven, CT*   September 2020 – present
- Receiver of the Yale Tobin Research Assistantship award.
- Conducting a re-examination of the systematic gender gap in preference for competition and compensation in order to identify the determinants of self-selection into compensation schemes in a laboratory setting.
- Revising the research paper and maintaining the code behind the project.

DreamKit Inc., Lead Software Engineer.   *New Haven, CT*   March 2020 – present
- Leading the development of the upcoming mobile app for DreamKit, a nonprofit organization dedicated to improve the lives of the New Haven youth living in unsustainable conditions by connecting them to economic opportunities.
- Utilizing React Native and Firebase to develop the user application.

Awards

ESA "CanSat" contest in 2018 ed., Gold Medal National Winner and European Finalist.   *Issued by the European Space Agency*
- Developed the software for a micro-satellite using Raspberry Pi and Arduino to collect and transmit atmospheric data.
- Project was chosen by national committee to represent Romania at the European stage of the competition.

ESA "Astro Pi" contest in 2018 ed., European Finalist.   *Issued by the European Space Agency*
- Wrote a program that detected astronauts entering a pressurized module by monitoring the change in humidity levels.
- Program was among few selected by ESA to be run on the Raspberry Pi on-board the International Space Station.

Organizations

Yale Machine Learning Society
- Co-founded the club to create an open forum for students to learn and discuss advances in machine learning.
- Leading the discussion of student activities such as study groups and weekly research paper presentations.

Yale Computer Society
- Project lead at the Development team.
- Supervising the creation of a centralized platform for Yale faculty to host research opportunities for undergraduate students.
- Previously helped organize programming workshops for students with any prior coding experience.

CodeHaven Yale
- Teaching weekly programming lessons and promoting coding from a young age at public middle schools in the New Haven area.

Projects

Sorting Visualized
- Built an interactive educational app designed as a visual demonstration of sorting algorithms.

Simple Programs
- Created a TypeScript library of data structures and computational math puzzles to illustrate topics such as hash tables, RSA encryption, and blockchain.

All projects available at andreipascu.com

Skills

Programming Languages: C, C++, Python, R, Swift, JavaScript, TypeScript

Software Technologies: Git, ReactJS, React Native, Firebase, SwiftUI, Node.js

Spoken Languages: English, Spanish, Romanian