

Patrick Sullivan

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Profile

A driven teacher and computer scientist who mixes the analytical process with personal insight to both help others and improve himself. Focuses on memorable narratives that build student motivation and curiosity to investigate concepts.

Employment

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| Visiting Instructor
<i>Virginia Tech, Blacksburg, VA</i> | 2022-present |
| Instructor of Record
<i>Virginia Tech, Blacksburg, VA</i> | 2021-2022 |
| Graduate Teaching Assistant
<i>Virginia Tech, Blacksburg, VA</i> | 2017-2021 |
| Computer Systems Analyst/Programmer
<i>United States Postal Office, St Louis, MO</i> | 2016-2017 |
| <ul style="list-style-type: none">➤ Develop and maintain enterprise web applications for logistics management | |
| Center for Analysis Systems and Applications Intern
<i>Sandia National Laboratories Albuquerque, NM</i> | 2016 |
| <ul style="list-style-type: none">➤ Develop programs for viewing astrodynamics data and stitching hi-res images | |
| Undergraduate Research Assistant
<i>Missouri University of Science and Technology, Rolla, MO</i> | 2013-2016 |
| <ul style="list-style-type: none">➤ Implement an emergency communications systems mobile application➤ Advise on patent, present design, and prototype to users | |

Education

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| PhD Candidate, Computer Science
<i>Virginia Tech</i> | 2020-2022 |
| <ul style="list-style-type: none">➤ Advisor: Dr. Clifford Shaffer | |
| Master's of Science, Computer Science
<i>Virginia Tech</i> | 2016-2019 |
| <ul style="list-style-type: none">➤ Thesis: "ALJI: Active Listening Journal Interaction"➤ Advisor: Dr. Bert Huang | |
| Global Prospectives Program Alumni
<i>Virginia Tech</i> | Summer 2019 |
| <ul style="list-style-type: none">➤ Visited and researched seven higher education institutions across Switzerland, France, and Italy; presented findings at the national Swiss embassy in USA➤ Focus Topic: Student Mental Health Support Systems | |

Future Professoriate Certification 2018-2019

Virginia Tech

Bachelors of Science in Computer Science 2011-2015

Missouri University of Science and Technology

- GPA: 3.817, Academic Scholars List for five semesters
- Undergraduate Research Advisor: Dr. Sriram Chellappan

Minor in General Psychology 2011-2015

Teaching Experience

Instructor of Record 2021-present

Virginia Tech

5 semesters

- CS 3114/5040: Data Structures and Algorithms
- CS 2114: Software Design and Data Structures
- Over 600 students in total, covering online and in-person

Graduate Teaching Assistant 2016-2021

Virginia Tech

9 semesters

- CS 3114: Data Structures and Algorithms, 1 semester
- GRAD 5114: Contemporary Pedagogy, 3 semesters
- CS 1114: Introduction to Software Design, 3 semesters
- CS 5754: Virtual Environments, 1 semester
- CS 3724: Introduction to Human-Computer Interaction, 1 semester

Graduate Assistant Summer 2020

Virginia Tech

1 semester

- Instructional design for new course: CS 5934: Capstone Project

Instructional Lead Fall 2018

CS-squared organization, Virginia Tech

1 semester

- Beginner programming curriculum for 4th grade classroom

Skills

- Languages: Java, Python & NumPy, C++, C#, SQL, Scala, LaTeX
- Tools: Git, Docker, Eclipse, Unity, Visual Studio, WAS, GIMP, Excel, Audacity

Other Experience

Member of Graduate Academy for Teaching Excellence (2018-2020)

Volunteered at the Price House Nature Center and Bug Camp for Kids (2019)

Crew Leader for a 40-mile mountain trek (2013) and a 6-day sailing voyage (2010)

Earned Eagle Scout rank in the Boy Scouts of America (2011)

Studies Artificial Intelligence, Music, Psychology, Audio Engineering, and Pedagogy

Interests: Hiking, Disc Golf, Tennis, Table Tennis, Piano, Drumming