

Nathan Cooper

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Research Interests

Software engineering, machine / deep learning applications for software engineering, information retrieval, and question & answering applications for software engineering.

Education

College of William and Mary

PH.D. IN COMPUTER SCIENCE

Williamsburg, VA

2018 - 2023

University of West Florida

B.S. IN SOFTWARE ENGINEERING

Pensacola, FL

2015 - 2018

Experience

College of William and Mary

RESEARCH ASSISTANT

Williamsburg, VA

Fall 2018 - Present

Auburn University

UNDERGRADUATE RESEARCH ASSISTANT

Auburn, AL

Summer 2017

University of West Florida

UNDERGRADUATE RESEARCH ASSISTANT

Pensacola, FL

Fall 2015 - Summer 2018

Honors & Awards

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| 2020 | Virginia Space Grant Consortium (VSGC) Fellowship , Researching the application of graph neural networks to solve software engineering tasks. (on going) | Williamsburg, VA |
| 2018 | 3rd Place , UWF's CodeFest: Developed a multiple player android app named Discoverers to inspire people to learn more about their planet's geography. | Pensacola, FL |
| 2017 | 19th Place , ACM Southeast Regional ICPC in Division II: Team name "GreatScott!" | Pensacola, FL |
| 2017 | Most Creative Idea , UWF's CodeFest: for Cyber Security Game | Pensacola, FL |
| 2017 | Outstanding Student Award , at UWF | Pensacola, FL |

Journal Publications

- N. Wilde, B. Eddy, K. Patel, **N. Cooper**, V. Gamboa, B. Mishra, K. Shah, "Security for Devops Deployment Processes: Defenses, Risks, Research Directions," In International Journal of Software Engineering & Applications (IJSEA), Nov. 2016

Conference Publications

- C. Bernal-Cárdenas, **N. Cooper**, K. Moran, O. Chaparro, A. Marcus, and D. Poshyanyk, "Translating Video Recordings of Mobile Apps into Re-playable Scenarios," in Proceedings of the 42nd IEEE/ACM International Conference on Software Engineering (ICSE'20), Seoul, South Korea, 2020. (20% acceptance rate)
- B. Eddy, N. Wilde, **N. Cooper**, B. Mishra, V. Gamboa, K. Shah, A. Deleon, N. Shields, "A Pilot Study on Introducing Continuous Integration and Delivery into Undergraduate Software Engineering Courses," In Proceedings of the IEEE 30th Conference on Software Engineering Education and Training (CSEE&T'17), Savannah, Georgia, 2017
- B. Eddy, N. Wilde, **N. Cooper**, B. Mishra, V. Gamboa, K. Patel, K. Shah, "CDEP: Continuous Delivery Educational Pipeline," In Proceedings of the ACM SouthEast Conference (SE'17), Kennesaw, Georgia, 2017

Teaching Experience

CS420/520 Neural Networks for Machine Learning (Undergraduate & Graduate)

TEACHING ASSISTANT: GRADED ASSIGNMENTS AND HOSTED OFFICE HOURS

College of William and Mary

Fall 2019, Spring 2020

CS435 Software Engineering (Undergraduate)

INVITED LECTURER AND PROJECT LEAD

TEACHING ASSISTANT: GRADED ASSIGNMENTS AND HOSTED OFFICE HOURS

College of William and Mary

Fall 2019

CS241 Data Structures (Undergraduate)

TEACHING ASSISTANT: GRADED ASSIGNMENTS AND HOSTED OFFICE HOURS

College of William and Mary

Fall 2018, Spring 2019

ACM Club's Machine Learning Workshop

PRESENTER

University of West Florida

Fall 2016, Spring 2017

Computer Science Tutor

ASSISTED STUDENTS WITH VARIOUS PROGRAMMING LANGUAGES AND PRESENTED AND ORGANIZED FRESHMAN LEVEL

University of West Florida

WORKSHOPS FOR STUDENTS IN BEGINNER PROGRAMMING AND DATABASE CLASSES

Spring 2016 - Fall 2017

References

Associate Professor Denys Poshyvanyk (Advisor)

College of William & Mary

CLASS OF 1953 TERM DISTINGUISHED ASSOCIATE PROFESSOR

- **Position:** Associate Professor of Computer Science
- **Email:** denys@cs.wm.edu
- **Phone:** (757) 221-3476