

# 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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|------|--|---------------|
| 2018 | <b>3rd Place</b> , 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 | <b>19th Place</b> , ACM Southeast Regional ICPC in Division II: Team name "GreatScott!"  | Pensacola, FL |
| 2017 | <b>Most Creative Idea</b> , UWF's CodeFest: for Cyber Security Game  | Pensacola, FL |
| 2017 | <b>Outstanding Student Award</b> , 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. Poshyvanyk, "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, to appear. (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

College of William and Mary

TEACHING ASSISTANT: GRADED ASSIGNMENTS AND HOSTED OFFICE HOURS

Fall 2019

## CS241 Data Structures (Undergraduate)

TEACHING ASSISTANT: GRADED ASSIGNMENTS AND HOSTED OFFICE HOURS

## ACM Club's Machine Learning Workshop

PRESENTER

## Computer Science Tutor

ASSISTED STUDENTS WITH VARIOUS PROGRAMMING LANGUAGES AND PRESENTED AND ORGANIZED FRESHMAN LEVEL WORKSHOPS FOR STUDENTS IN BEGINNER PROGRAMMING AND DATABASE CLASSES

*College of William and Mary*

*Fall 2018, Spring 2019*

*University of West Florida*

*Fall 2016, Spring 2017*

*University of West Florida*

*Spring 2016 - Fall 2017*

## References

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### 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