

# Mark Lalor

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## EDUCATION

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**Case Western Reserve University** SEP 2016 – DEC 2019  
Bachelor of Science in Computer Science GPA: 3.825

CURRENT CLASSES: Computer Security, Applied Graph Theory, Software Defined Networks, Databases, Number Theory  
COMPLETED CLASSES: Algorithms, Data Structures, Artificial Intelligence, Computer Networks, Programming Language Concepts, Operating Systems and Concurrent Programming

## WORK EXPERIENCE

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RESEARCH ASSISTANT | Case School of Engineering, Rabinovich Lab  
SEP 2018 – PRESENT | Cleveland, OH

- Conducting a measurement of the adoption of the EDNS Client Subnet (ECS) extension to DNS.
- Assessing the utility of the ECS extension for distributed platforms scanning.

SOFTWARE ENGINEER INTERN | MIM Software  
MAY 2018 – AUG 2018 | Beachwood, OH

- Implemented multi-factor authentication for an existing cloud software suite.
- Added options for time-based one-time passwords, SMS messages, and backup codes.
- Created new server-side services and added new HTTP endpoints for clients.

TEACHING ASSISTANT (INTRO TO JAVA) | Case School of Engineering  
SEP 2017 – DEC 2017 | Cleveland, OH

- Led two lab sections per week, assisting students completing the assignments.
- Held a weekly office hour with a mini-lesson and project discussion.
- Graded and provided feedback on lab assignments and projects.

SOFTWARE ENGINEER INTERN | MIM Software  
MAY 2017 – AUG 2017 | Beachwood, OH

- Created new viewer/editor for DICOM (medical image) files that interfaces with main software.
- Maintained existing software components through version control and code review.

## LEADERSHIP AND CLUBS

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- *Hacker Society Maintainer*: Organize weekly tech talks on campus. Reach out to current students as well as industry professionals and alumni to give talks.
- *CWRU ACM Secretary*: Plan, manage, and volunteer for events that teach and support CS on campus. Provide guidance in regards to classes, the computer science department, and careers.
- *Vietnamese Student Association*: Promote Vietnamese culture on campus and the Cleveland community by helping with events. Volunteer as a mentor for a mentor/mentee program for new students.

## SKILLS

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PROGRAMMING LANGUAGES: PROFICIENT: Java, Python  
EXPERIENCE: Scala, SQL, C, HTML, CSS, Javascript

SOFTWARE AND FRAMEWORKS: Linux, Git, Mercurial, JUnit, Guava, Swing, Google Cloud Platform, Nginx, Redis

## PROJECTS

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- *PLC Interpreter*: Interpreter for a Java-like programming language with constructs such as objects, polymorphism, loops, recursion, and nested functions. Project in Programming Language Concepts.
- *Clanvas*: Command-line client for the Canvas learning management system. Uses the Canvas HTTP API to generate grade summaries, list assignments, and download course files.

- *Canvasapi and Cmd2*: Open-source libraries used in Clanvas which I contribute back to.
- *TutoringLog*: Google App Engine application to track/verify student tutoring sessions. Successfully used by 100-student math honor society at high school.