

# 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: 3.74

CLASSES: Algorithms, Data Structures, Computer Security, Computer Networks, Software Defined Networks, Databases, Operating Systems, Programming Language Concepts, Artificial Intelligence, Graph Theory, Probabilistic Graphical Models

## WORK EXPERIENCE

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TEACHING ASSISTANT (INTRO TO JAVA) | Case School of Engineering

AUG 2019 – PRESENT, AUG 2017 – DEC 2017 | Cleveland, OH

- Lead two lab sections per week, assist students in completing assignments.
- Hold a weekly office hour with a mini-lesson and homework discussion.
- Grade and provide feedback on lab assignments and class projects.

SOFTWARE ENGINEER INTERN | Asana

MAY 2019 – AUG 2019 | San Francisco, CA

- Worked on data loading frameworks and abstractions for product teams.
- Reduced build times for engineers by identifying and restructuring problematic compilation targets.

RESEARCH ASSISTANT | Case School of Engineering, Rabinovich Lab

SEP 2018 – DEC 2018 | Cleveland, OH

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

SOFTWARE ENGINEER INTERN | MIM Software

MAY 2018 – AUG 2018 | Beachwood, OH

- Designed a multi-factor authentication framework for an existing cloud software suite.
- Implemented options for time-based one-time passwords, SMS messages, and backup codes.

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*: 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. Was a mentor for a mentor/mentee program for new students.

## SKILLS

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PROGRAMMING LANGUAGES: Python, Java, Scala, Typescript, C, SQL, GraphQL

SOFTWARE AND FRAMEWORKS: Git, Linux, Bazel, React, 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.