

Mark Lalor

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EDUCATION

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

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

- *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

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

- *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.