

# Matas Lauzadis

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## Education

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### University of Illinois at Urbana-Champaign

B.S. Computer Science and Geography & Geographic Information Science - 3.93/4.0 GPA

Urbana, IL

Aug. 2020 - Dec. 2021

### College of DuPage

A.S. Computer Science - 3.88/4.0 GPA

Glen Ellyn, IL

Aug. 2018 - May 2020

## Work Experience

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### Amazon

New York, NY

#### Software Development Engineer

Feb. 2022 - Present

- Design and implement scalable systems to provide retail data at a high spatial resolution, supporting localized advertising for stores such as Amazon Fresh and Whole Foods.
- Publish catalog item data in highly-available, low-latency caches to support Amazon's various advertising use cases, including machine learning, ad moderation, and the delivery of hundreds of millions of ads per second

### Amazon Web Services

Seattle, WA

#### Software Development Engineer Intern

May 2021 - Aug. 2021

- Designed and implemented the Database Migration Service's first serverless system to reduce latency, improve scalability, and cut operational costs.
- Automated capital expenditure monitoring workflows to reduce unused compute units by 4x, saving \$30,000 and counting.

### CACI International

Lisle, IL

#### Software Development Intern

Jan. 2021 - May 2021

- Evaluated Splunk as a means to rapidly detect and respond to cyber attacks on telecommunications networks.
- Modeled, generated, and analyzed large amounts of SIP protocol network traffic to simulate normal use and a diverse set of cyber attacks.

### ESPO Engineering Corporation

Willowbrook, IL

#### Software Engineer Intern

Feb. 2020 - Mar. 2021

- Created a project management system using the Django web framework.
- Automated internal processes end-to-end, from processing incoming jobs to invoice creation and billing.
- Created a tool which efficiently routes employees to each inspection site, saving hours per day.

### National Center for Supercomputing Applications

Urbana, IL

#### Undergraduate Research Fellow

May. 2019 - Jan. 2021

- Used high performance computing to perform sensor fusion on precision agriculture data, including satellite images, soil sensors, and the crop harvester's geolocation and yield data.
- Assembled a deep learning dataset used to detect and quantify landscape change in the Arctic.
- Simulated environmental effects of installing low-impact developments across the US with the EPA's Storm Water Management Model.

### Argonne National Laboratory

Lemont, IL

#### Visiting Student

May 2020 - Aug. 2020

- Implemented a distributed query system allowing Department of Energy national laboratories to share cyber threat indicators.
- Integrated Splunk as a data source for incoming cyber threat queries.
- Designed challenging puzzles for the team's annual cyber security CTF tournament.

## Extracurriculars

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### HackIllinois

University of Illinois

#### API Developer

Aug. 2020 - Dec. 2021

- Coordinated with iOS and Android teams to add new features in preparation for the university's annual hackathon.
- Implemented an extensible end-to-end testing suite using Go and the Sling framework.
- Developed CI/CD pipelines to speed up software deployment to the cloud.

### Robotics Team

College of DuPage

#### Lead Software Developer

Aug. 2019 - May 2020

- Trained a neural network to detect rocks and craters for autonomous navigation in preparation for NASA's Robotic Mining Competition.
- Led a transition from C++ to Python to speed up onboarding and contribution of new programmers.
- Collaborated with mechanical and electrical teams to augment robots for the Midwest Robotics Design Competition.