

# Michael Shur

Phone: 732-492-4241

Email: [michaelshur28@gmail.com](mailto:michaelshur28@gmail.com)

Citizenship: USA

Software developer at Amazon Web Services with 3 years experience in cloud computing with a focus on infrastructure and support services for fraud detection. Interests in virtual reality, AI, NLP, robotics, and software development.

## Education:

University of Pennsylvania Aug 2018 - May 2020

**Degree:** M.S. in Computer and Information Science

Rutgers University, New Brunswick NJ Sept 2014 - May 2017

**Degree:** B.S. in Computer Science Cum Laude

## Work & Research Experience:

### Amazon Web Services

**Job Title:** Software Development Engineer

June 2020 -  
current

AWS Infrastructure professional with experience in:

- ❖ Design, development, and testing of cloud-based fraud detection infrastructure software used continuously throughout AWS
- ❖ Scalable and efficient design and implementation of regionalized services and APIs with large underlying data sets (>1TB) using IntelliJ and AWS CDK tools
- ❖ Optimized and eliminated unnecessary regional deployments on an eventing system in CODEAWS service. Reduced deployments by 60%. Estimated costs savings is \$180K/year
- ❖ Developed a new tool which both generates and verifies Velocity Template files used within AWS Global Data fraud services. Reduced time needed to run the full suite of tests from 48 hours to 30 secs. In addition, full tests are run during each version set build, preventing errored file changes from being deployed.
- ❖ Mentoring an experienced software engineer who was a new addition to our team. Helped him understand our team's mission, and served as a resource for all his questions about our team's infrastructure and services. The engineer completed his work, and credited my assistance in enabling this success.

### University Of Pennsylvania

**Job Title:** Research Assistant (under Professor [Dan Roth](#))

April 2019 -  
May 2020

- DARPA Lorelei project. Developed web based applications demonstrating NLP *transliteration* research for low-resource languages.

## Personal Projects: (available at <http://michaelshur28.com/projects.php>)

### Machine Learning-Based HandWritten Digit Classifier

- Recognises and classifies hand-drawn digits.
- **Technologies:** Python, JavaScript, Tensorflow, TensorflowJS, HTML, MNIST Training Data Set

### Multi-joint Robot Arm Pathfinding in an Obstacle Field

- User specifies destination point, arm develops plan and moves to destination avoiding any interfering obstacles.
- **Technologies:** Matlab, A\* Pathfinding, Body Kinematics

## Personal website:

<http://michaelshur28.com>

## LinkedIn:

<https://www.linkedin.com/in/michael-shur-740022134/>

## Skills:

### Languages:

Java Python C#

TypeScript C++ C

SQL Matlab HTML

### Tools and

### Frameworks:

**AWS Tools:**  
Cloudwatch,  
Lambda, S3,  
DynamoDB,  
APIGW, CDK,  
Cloudformation

MongoDB Linux

Unreal Engine

NodeJs Express

MySQL Unity

VTL Tensorflow

Sklearn Neo4J

## Other:

- Taught English as a 2nd language in Costa Rica through the Maximo Nivel program
- Volunteered at [Habitat for Humanity](#)
- Volunteered at charity organization [Lunch Break](#)
- Outdoor adventure enthusiast (White water rafting, Hiking, etc.)