Daniel D. **Cox**

Software Engineer
Brooklyn, New York

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Education

Rochester Institute of Technology   *Rochester, New York*
B.S. in Software Engineering   *May 2019*
- Modern Language Russian Minor
- Dean's List

Saint Petersburg State University   *Saint Petersburg, Russia*
Study Abroad   *Summer 2016*

Experience

Amplify Education   *Brooklyn, New York*
Associate Software Engineer - DevOps   *July 2019 - Present*
Software Engineer Co-op   *Jan 2018 - December 2018*
- Decreased AWS account cost by 30+% via migration of EC2 applications to Lambda, S3, and Docker.
- Experienced in Automating, Configuring, and Deploying infrastructure on AWS via Terraform and Serverless.
- Shared domain expertise in application monitoring and logging solutions such as New Relic, Splunk, and Datadog.
- Designed, implemented, and maintained internal and open-source tooling.
- Lead and participated in incident management, triage, and response.

Undergraduate Research Assistant   *Rochester, New York*
Air Force Research Lab, Rochester Institute of Technology   *Aug 2017 - Dec 2017*
- Developed CAN network between 3+ Texas Instruments DSPs.
- Configured each DSP to achieve dynamic consensus on power output.
- Collaborated with electrical engineering team to simulate an electrical network using Opal RT.

Undergraduate Researcher   *Rochester, New York*
LSAMP Scholars Program, Rochester Institute of Technology   *May 2017 - Aug. 2017*
- Interpreted and analyzed monocular visual odometry algorithms using cross validation testing.
- Constructed Monocular SLAM algorithm for Husky-UGV Robot.
- Reported and presented results at local and national research conferences.

ACI Worldwide   *Fairport, New York*
Associate Software Engineer   *Jan. 2017 - April 2017*
- Worked remotely with a scrum team based in Kazan, Russia.
- Used Maven and Spring to implement and maintain a Java project.
- Worked with Docker and Kubernetes for building and managing a project in a DevOps environment.
- Interfaced with Apache Hadoop and Cassandra for big data management.

Projects

Dartscore
Multiplayer real-time serverless darts scoring web application   *Feb 2021*
- Allows users to connect to each other "jackbox" style and record dart scores in real-time.
- React TS web application with python serverless back-end hosted on AWS and Github.
- Uses AWS Lambda, DynamoDB, and API Gateway Web Sockets to achieve serverless real-time functionality.
- Front-end designed using React Material UI and styled-components.
- Project management and issue tracking implemented via Github Projects.

Amplify Music
2020 Amplify Hackathon - 2nd Place "Best Project"   *Oct 2020*
- Enables students to learn sheet music remotely with sound and color memorization cues.
- React JS web application with SCSS hosted on AWS.
- Project Lead for team of 4.
- In charge of audio playback and midi functionality.

Terrawrap Graph Apply
Graph based directory applies for Terraform   *Feb 2020*
- Add-on for open source Terrawrap Github repository.
- Stores directories to be applied as a directed graph for apply order.
- Allows directories to be applied even if an unrelated directory previously failed.
- Clearly displays dependency, success, and failure information for Terraform applies.

Certifications, Programs, and Skills

Python, React, TypeScript, JavaScript, Java, Ruby, HTML, CSS, PHP, AWS, Serverless, Terraform, Git, Jenkins, Bash
AWS Certified Developer, ACM-ICPC, Russian, Tutoring, Volleyball Coaching, Web Development