

Daniel D. Cox

SOFTWARE ENGINEER
Brooklyn, New York

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Education

Rochester Institute of Technology

B.S. IN SOFTWARE ENGINEERING

- Modern Language Russian Minor
- Dean's List

Rochester, New York

May 2019

Saint Petersburg State University

STUDY ABROAD

Saint Petersburg, Russia

Summer 2016

Experience

Google

SOFTWARE ENGINEER - YOUTUBE MUSIC

- Developed cross-app integrations on the YouTube Music Android client.
- Designed and implemented YouTube music on multiple third party clients.
- Upgraded an managed workflow for Android TV releases.

Mountain View, California

July 2021 - Present

Amplify Education

ASSOCIATE SOFTWARE ENGINEER - DEVOPS

SOFTWARE ENGINEER CO-OP

- 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.

Brooklyn, New York

July 2019 - June 2021

Jan 2018 - December 2018

Undergraduate Research Assistant

AIR FORCE RESEARCH LAB, ROCHESTER INSTITUTE OF TECHNOLOGY

- 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.

Rochester, New York

Aug 2017 - Dec 2017

Undergraduate Researcher

LSAMP SCHOLARS PROGRAM, ROCHESTER INSTITUTE OF TECHNOLOGY

- 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.

Rochester, New York

May 2017 - Aug. 2017

Projects

Dartscore

MULTIPLAYER REAL-TIME SERVERLESS DARTS SCORING WEB APPLICATION

- 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.

Feb 2021

Amplify Music

2020 AMPLIFY HACKATHON - 2ND PLACE "BEST PROJECT"

- 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.

Oct 2020

Terrawrap Graph Apply

GRAPH BASED DIRECTORY APPLIES FOR TERRAFORM

- 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.

Feb 2020

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