

# Dhruv Sharma

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## Work Experience

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### Amazon Web Services (AWS)

Seattle, WA, USA

SOFTWARE DEVELOPMENT ENGINEER INTERN

June 2021 - Present

- Worked on the AWS Traffic Engineering team and designed and developed a console that allows engineers to view various aspects of a large distributed system which would help engineers monitor the system and diagnose faults.
- Developed a React based website deployed on AWS and a serverless Rust backend. Used AWS services like Lambda, S3, KMS, CloudFormation and API Gateway.
- Worked on making the console highly available and fault resistant.

### UCLA IT Services

Los Angeles, CA, USA

SENIOR IT CONSULTANT

September 2019 - Present

- Provide primary technical support for clients in the UCLA network.

### Amazon Web Services (AWS)

Seattle, WA, USA

SOFTWARE DEVELOPMENT ENGINEER INTERN

July 2020 - September 2020

- Worked on the AWS Traffic Engineering team.
- Developed a set database housekeeping features that would clean databases of unnecessary data and improve performance

### UCLA DevX

Los Angeles, CA, USA

INTERNAL VICE PRESIDENT

May 2020 - June 2021

- Managed UCLA DevX, a design, technology, and entrepreneurship organization at UCLA focused on solving pressing problems on our campus. We aim to turn the theory we learn in the classroom into real software products that benefit the UCLA Bruin community.
- Oversaw club operations, projects and events.

### BlueDOME Technologies

San Francisco, CA, USA

SOFTWARE ENGINEERING INTERN

July 2019 - September 2019

- Worked on developing an image recognition and text detection pipeline for reading road and traffic signs.
- Successfully researched and implemented methods to allow for accurate and fast text detection and recognition on images, dealing with issues like shadows, light, reflections, color, perspectives. Also added object tracking to supplement existing ML object detection models.
- Researched and implemented a service, from scratch, to stream video files to a server and process the video (using ML model) on the fly, thereby improving customer experience and wait times.

### ESRI

UAE

SOFTWARE ENGINEERING INTERN

July - August 2016 & July - August 2017

- Developed drivers for ArcGIS to support new image types and used GDAL to create an automated testing script to test support for different image file types and log results.
- Made UI elements for ArcGIS Windows.

## Education

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### University of California, Los Angeles (UCLA)

Los Angeles, CA, USA

BS, COMPUTER SCIENCE

2018 - 2022

- GPA: 3.54
- Courses: Operating Systems, Programming Languages, Secure Software Design, Compilers, CPU Design, Networks, Artificial Intelligence, Databases
- Graduate level courses: High Performance Computing and Cryptography

## Research

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### UCLA Compilers Group

Los Angeles, CA, UCLA

UNDERGRADUATE RESEARCH ASSISTANT

April 2021 - Present

- Working on developing tools to generate testing infrastructure for compilers targeting weak memory model architectures.

## Skills

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**Languages** Rust, C, C++, Java, JavaScript, TypeScript, Python, OCAML, Swift, Lisp

**Technologies** AWS, Firebase, Web Development, React

**AWS** CloudFormation, EC2, Lightsail, VPC, CloudWatch, Route53, Lambda, CloudFront, S3, DynamoDB, Amplify, API Gateway, SQS