

Roddur Dasgupta

roddurdasgupta.com/[github, /linkedin, /twitter]

I am a computer scientist with strong experience in machine learning and data science. I also have experience in software and web.

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Experience

Project Lead, Density x CAIS++

January 2020 - May 2020

Created a synthetic data pipeline to improve accuracy in anonymous people counting. Generated aerial depth data from simulated people walking through doors in Unity. [Visit roddurdasgupta.com/density](https://roddurdasgupta.com/density) to see my work.

Unity for simulations, U-Net inspired CNN in TensorFlow for modeling.

Data & Engineering Intern, Summit Tech Lab

June 2019 - Present

Automated camera capture sequence + data pipeline. Currently analyzing photos to determine the best quality projector. Authored an instruction manual for a company product, complete with 3D modeled and rendered images of the components constructed step-by-step. [Visit roddurdasgupta.com/summit](https://roddurdasgupta.com/summit) to see my work.

C#, C++, OpenCV, NumPy (Python) for data collection/analysis. LaTeX, SketchUp for instruction manual.

Software Engineering Intern, Neudesic

June 2017 - July 2017

Documented >50 types of web server requests to the API of the company's proprietary project management application. My technical documentation helped automate company work flow.

Fiddler to study JSON + Visual Studio C# to understand the desired API.

Visit my LinkedIn (roddurdasgupta.com/linkedin) for more information.

Education

University of Southern California

B.S. Computer Science

May 2022

Specializing in artificial intelligence. Also interested in software engineering.

Relevant Coursework:

CSCI 104: Data Structures & Object Oriented Design

CSCI 170: Discrete Methods in Computer Science

MATH 226: Calculus III (Multivariate/Vector)

MATH 225: Linear Algebra & Linear Differential Equations

CSCI 201: Principles of Software Development

CSCI 270: Intro to Algorithms & Theory of Computing EE 364:

Intro to Probability & Statistics for EECS

Leadership + Research

Check out my curriculum at roddurdasgupta.com/cais!

CAIS++ (Center for AI in Society)

VP of Curriculum, Project Lead

Feb. 2019 - Present

LavaLab (USC's premiere startup incubator)

Software Developer

Aug. 2019 - Dec. 2019

Interaction Lab (USC Robotics Research)

Undergraduate Researcher

Oct. 2019 - Present

Side Projects

Check them out at roddurdasgupta.com/musetek, [/slapper](https://roddurdasgupta.com/slapper), [/cliq](https://roddurdasgupta.com/cliq)!

MuseTek AI-powered musical sample classification.

Keras + React 2019

Slapper Image/video manipulation library + DeepDream for video. Group

OpenCV (Python) 2019

Clique movie selection (recommendation) app.

React (JavaScript)

Tools

I will learn whatever you need me to.

Languages Bengali, Spanish, Hindi | Python, C++, C#, Java, JavaScript, HTML/CSS, MATLAB

Frameworks TensorFlow (Keras), Sklearn, NumPy, React, Flask

Skills Git, AWS (EC2/Route 53), UNIX, SSH/TMUX, SketchUp, Figma, Sketch, FL Studio (Music), Video Editing, Spreadsheets, Googling before asking