

# Ruturaj Gujar

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## EDUCATION

- **University of Massachusetts, Amherst (College of Information and Computer Sciences)** *Jan 2021 - May 2022*  
Master of Science (M.S.) in Computer Science (GPA: 3.89/4.0)
- **Dwarkadas J. Sanghvi College of Engineering, Mumbai** *Aug 2016 - Oct 2020*  
Bachelor of Engineering, Computer Engineering (CGPA: 9.84/10)

## SKILLS

- **Programming languages:** C/C++, Java, Python
- **Database:** MySQL, SQLite, MongoDB
- **Web/App development:** Django, Flask, NodeJS, Laravel, Android
- **Operating Systems:** Linux, Windows, Unix
- **Others:** Git, Docker, Elastic Search, Kubernetes, Robot, Jenkins, Jupyter, PyTorch, Keras, Spark

## EXPERIENCE

- **Salesforce - MTS Software Engineer**, San Francisco *Jul 2022 - Present*
  - ◇ Developed a Slack bot using NLP for processing production alerts and creating tickets for severe ones. Utilized Elastic Search for state management across multiple instances.
  - ◇ Worked on production observability to track metrics like latency, performance, etc. for multiple MuleSoft services.
  - ◇ Engineered a benchmarking framework to test multi-platform performance through nested Jenkins pipelines efficiently.
  - ◇ Successfully migrated test benchmarks from 4vCPU AWS instances to 1vCPU instances, reducing costs by more than 95%.
- **Salesforce - Software Engineering Intern** (Remote), San Francisco *Jun 2021 - Aug 2021*
  - ◇ Worked on building an automation tool, for MuleSoft Composer, for performing scalable load tests using Python, Robot, Elastic Search.
- **Google Summer of Code, CERN - Student Developer** (Remote), Geneva *May 2019 - Aug 2019*
  - ◇ Enhanced Rucio WebUI login process by integrating two new authentication methods: username/password and Single-Sign On (SAML) using Python and WebPy.
  - ◇ Developed a dataset tracking system utilizing threading and SQLAlchemy in Python, facilitating auto-generated email notifications to followers with concise summaries of dataset-related events.
- **Voyagenius Labs - Machine Learning Intern** (Remote), Mysuru *Oct 2018 - Jul 2019*
  - ◇ Worked on pose estimation on webcam video for detecting if a candidate is cheating in an exam, using OpenPose.
  - ◇ Developed a Proof of Concept for translating Indian languages to English through Neural Machine Translation using Facebook's Fairseq.
  - ◇ Built a [tool](#) to convert Handwritten Flowcharts to Computer generated Flowcharts to digitize them, using Faster-RCNN with Inception Resnet v2 backbone.
- **IIT Bombay - Deep Learning and Computer Vision Intern**, Mumbai *Jul 2018 - Jul 2019*
  - ◇ Performed image deblurring using Generative Adversarial Networks (GANs) to improve the quality of the image.
  - ◇ Implemented image gridding for localizing the spots in the microarray image using OpenCV.
- **Falconry - Software Development Intern**, Mumbai *Jun 2018 - Aug 2018*
  - ◇ Constructed a Kibana Dashboard (ELK Stack) for monitoring the environment usage of Falconry LRS (flagship software).
  - ◇ Developed a Web App to provide a quick demo of Falconry LRS to the clients using Angular and Django.
  - ◇ Created unit test cases for Falconry Python API client using Pytest.
  - ◇ Worked on Auto-Identifying the time formats using Regex in JS, created Mocha test cases for the same.

## PROJECTS

- **Image Caption Generation and Refinement for Intelligent Tutoring Systems** | *Python, Django, Flask, PyTorch, SQLite*  
Final year undergrad project which focuses on generating a quiz for kids based on the images uploaded by the teachers. The quiz consists of a slotted caption for each image and a set of dynamically generated answer choices based on the context. Students are automatically graded on the quiz based on their performance.
- **Search Engine** | *Golang, C++, Python, Django, Elastic Search*  
Developed a basic Search Engine which uses Elastic Search as the Index, and PageRank for ranking along with some additional factors (such as Accessibility, SEO, Responsiveness, etc).

## ACHIEVEMENTS

- Completed [CKAD](#) certification offered by CNCF
- Selected among the **Top-20** candidates at Computer Vision Summer School, CVIT, IIIT-H, 2019.
- Awarded Udacity PyTorch Scholarship by Facebook and Android Scholarship by Google, 2018.
- Among **Top 5%** as an undergraduate. (2016-2020)
- **1st ranker** in School (10th Grade) and Junior College (12th Grade).