

# Rahul Damineni

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## EDUCATION

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- **Oregon State University** Corvallis, OR  
*Master of Science in Computer Science; (coursework); GPA: 3.67* *September 2019 – June 2021*
- **BITS, Pilani** Hyderabad, IN  
*Master of Science in Physics, Bachelor of Engineering in Electrical & Electronics* *August 2011 – July 2016*

## EXPERIENCE

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- **CloudSek Infosec** Bangalore, IN  
*Sr. Machine Learning Engineer* *August 2016 - September 2018*
  - **Achievement:** Conceived and developed several high-value features in the core product.
  - **ML APIs as a service:** Developed an async RESTful micro-service that served 200k requests per day. The design accommodates worker scaling, A/B testing & adding new models. It uses a publish-subscribe pattern to be fault-tolerant and scale workers on demand. **Python-Flask, RabbitMQ, MongoDB, NginX**
  - **Threat Detector:** Collected & classified thousands of tweets, forum & blog posts to identify mentions related to vulnerabilities, data breaches, and cyber threats. Engineered a Hierarchical Attention-based RNN which improved the task accuracy by 13%. **Python-Requests, Selenium, Keras, TensorFlow**
  - **Fake Domain Finder:** Discovered 100+ malicious websites impersonating trademarks of clients by building a cloud monitor. Made pipelines for data collection, training, and inference around text classification & template matching skills. **Sklearn, OpenCV, MongoDB, Selenium, SystemUtils**
- **UNAR Labs** Portland, ME  
*AI/ML Research Intern* *June 2020 - October 2020*
  - **SAT Digitalizer Service:** Developed & deployed a general-purpose job scheduler that batch-processes digitization jobs and exposes the results through a REST API. The stack was containerized & orchestrated using docker-swarm. **Redis Queue, SQLAlchemy, PostgreSQL, Docker, Python-Flask**
- **TheMathCompany** Bangalore, IN  
*Associate (Data Science)* *September 2018 - April 2019*
  - **Achievement:** Optimized a supply chain component that would bridge the gap in production goals and save \$15M annually by collaborating with stakeholders and the engineering team at Kimberly Clark
  - **Plan Rate Forecasting:** Predicted throughput of production mills by performing exploratory data analysis (EDA) to identify influential parameters, conceived and tested hypotheses, engineered features, and trained a predictive model that forecasts rate with 7% MSE. Packaged this model as a simulator for the end consumer.

## PROJECTS

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- **Clip-tionary:** To memorize and pronounce a new word easily, shows scenes from TV shows and movies where it was uttered. **ReactJS, Python-Flask, MongoDB, Docker, WebRTC** ([code](#)) ([design document](#))
- **Anonymous Author Identifier:** To identify latent clues in writing styles, trained an LSTM based binary classifier, and a DBMS program that determines if a text is written by existing authors in DB. **PyTorch, torchtext** ([code](#)) ([report](#))
- **DARPA Subterranean Challenge:** Trained a MobileNet with Single Shot Detector head to detect and localize the competition's artifacts with mAP of 58% (@0.75 IoU). **nvidia-docker, TensorFlow Object Detection API** ([website](#))
- **Super Logger:** Project planning and logistics management platform for road construction projects. Surveyed for user stories, designed a data harvesting framework around the actors, and developed most of the MVP. **ReactJS, NodeJS, MongoDB, Docker, GCP: compute engine, container registry, GKE** ([pitch](#))

## SKILLS & TOOLS

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- **Languages:** Python, JavaScript, C, Shell Scripting, SQL
- **Frameworks:** PyTorch, Scikit-Learn, OpenCV, Pandas, SQLAlchemy, Matplotlib, TensorFlow, ReactJS, Flask, Selenium
- **Tools:** Git, MongoDB, PostgreSQL, Docker, AWS: EC2, DynamoDB, S3; GCP: Cloud Run, Storage, Container Registry