

Sathvik Koneru

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Check me out on [LinkedIn](#), [Medium](#), and [GitHub](#)
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EXPERIENCE

RStor Saratoga, CA
Software Engineering Intern 2019-Present

- Developed an end-to-end product for optimizing the selection of low-priority instances across CSPs and deploying containerized applications for batch processing jobs
- Wrote backend and API for pricing engine and instance provisioning in Golang and frontend in Angular
- Assisted the sales team with several engineering demos
- Submitted 2 patents relevant to the project

UM Radiology – Computer-Aided Diagnosis Lab Ann Arbor
Undergraduate Research Assistant 2018-Present

- Investigated the use of generative adversarial networks as a means for synthesizing novel training data in mammography
- Investigated feature selection methods on deep convolutional neural networks to improve efficiency/performance on classification of tumors in digital breast tomosynthesis
- Co-author on 3 papers relating to Computer Vision, Machine/Deep Learning, Feature Selection/Engineering, GANs

Development United San Jose, CA
Software Engineering Intern 2017

- Built a web-crawler in Python to retrieve relevant information (emails, telephone numbers, addresses, etc.) from NGO landing sites

EDUCATION

University of Michigan, Ann Arbor Ann Arbor, MI
Computer Science, Sophomore 2018-2022

- Pursuing a Computer Science major. Clubs: Blockchain at Michigan, Wolverine Sports Analytics, Michigan Data Science Team
- Relevant Coursework: EECS 281 (Data Structures and Algorithms), EECS 370 (Computer Organization) EECS 280 (Programming and Data Structures), EECS 203 (Discrete Mathematics), MATH 215 (Multivariable Calculus), MATH 214 (Applied Linear Algebra)

SKILLS

- **C/C++**
- **Python, Java**
- **Golang**
- Machine Learning: numpy, **pandas**, matplotlib, **scikit-learn**, **TensorFlow**
- Web Dev: **JavaScript**/HTML/CSS, Typescript, Node.js, Bootstrap, **React**, Angular, **Flask**
- iOS Dev: **Swift**/Xcode/Firebase
- **SQL/MySQL**
- **Matlab**
- Shell Scripting
- AWS, Azure, GCP
- DevOps, Containers, REST APIs

PROJECTS

Pantry

- iOS app that suggests recipes based on pictures of your refrigerator or pantry

iFall

- An [iOS application](#) targeted at detecting falls in the older population and quickly notifying emergency contacts to save valuable time for an emergency medical response.

NGOpycrawler

- A [web-crawler](#) I created for Development United that leverages regex to find relevant NGO data online.

ONLINE COURSEWORK

Coursera

- DeepLearning.ai Specialization taught by Andrew Ng
- Received certifications in the courses [Introduction to Data Science in Python](#) and [Applied Machine Learning with Python](#)