

# Ashik Poovanna

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## EDUCATION

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**Master of Science, Computer Science & Engineering** Aug 2019 - Feb 2021

University at Buffalo, The State University of New York (SUNY)

**Courses:** *Machine Learning, Information Retrieval, Distributed Systems, Algorithm Analysis & Design*

**Bachelor of Technology, Computer Science & Engineering** Aug 2015 - May 2019

PES University, Bangalore, India

**Courses:** *Data Analysis, Natural Language Processing, Computer Networks, Operating Systems*

**Awards:** CNR Rao Merit Scholarship - 2018

## PROFESSIONAL EXPERIENCE

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*DRONES Lab, University at Buffalo* Dec 2019 - Sep 2020

### Graduate Research Assistant

- Developed Formation Control, Path Planning & State Manager modules in Java to facilitate AI-based Swarm missions in the AirSim environment.
- Demonstrated AI learned tactics in field tests (run by the DARPA OFFSET program) in the actual physical environment.

*InMobi, Bangalore, India*

Jan 2019 - Jun 2019

### Software Development Intern

- Implemented Java REST APIs to enable successful data transfer between InMobi's CDP platform & Microsoft's Power Bi service.
- Proposed methods to enable efficient export of CDP segments to third party data platforms & presented the conclusions to Product Managers.

*Information Trust Institute, University of Illinois Urbana-Champaign*

Jul 2018 - Aug 2018

### Visiting Research Scholar

- Researched methods to characterize the Normal behavior of distributed UAV Swarms.
- Implemented RNN models in PyTorch to detect emergent behavior from actuation & telemetry logs.

*Marsview.ai, Bangalore, India*

Jun 2017 - Aug 2017

### Computer Vision R&D Intern

- Developed Tracking algorithms using OpenCV for Automatic Number Plate Recognition systems.
- Designed a Web application using the flask web framework for the same.

## PROJECTS

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### Reinforcei (*Fun Project*)

Maintain a repo showcasing implementation & analysis of various Reinforcement Learning Agents and their usage.

### Simple Chord DHT (*Distributed Systems Project*)

Developed a Distributed Hash Table (DHT) based on the chord protocol in android to demonstrate a simple peer-to-peer lookup service, exhibiting id partitioning, ring based routing, and node joins.

### A Framework for the Next Generation of Artistic Tools (*Undergrad Thesis*)

Created a novel framework on top of Krita (Open Source Painting software) to facilitate easy conversion of cutting-edge Neural Style Transfer models into useful Artistic tools for a mass-market audience.

## TECHNICAL SKILLS

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**Programming Languages:** Fluent in Java, Python & C | Familiar with R & JavaScript

**Front-end:** HTML/CSS, RESTful Services/APIs, d3.js, Power Bi, Git/Github

**Back-end:** Python-flask/Django, AWS-EC2, Android Studio (Java), Postgres

**Others:** Keras, PyTorch, AirSim, OpenCV, Latex