

VIGNESH M. PAGADALA

Fort Collins, CO - 80521

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WHAT I CAN DO FOR YOU

- Full-stack software development
- Design specialized + optimized machine-learning models for a variety of use-cases
- Harden your computing system and design efficient access-control solutions
- IT Service Management

EDUCATION

Colorado State University	Fort Collins, Colorado
<i>Master of Science, Computer Science, GPA – 3.897/4.0 (in-progress)</i>	Aug 2017 – May 2019 (expected)
Coursework: Introduction to Artificial Intelligence, Database Management Systems, Introduction to Machine Learning, Computer Security, Advanced Networking, Machine Learning, Design and Data Analysis for Researchers.	
Anna University	Chennai, India
<i>Bachelor of Technology, Information Technology</i>	Aug 2013 – May 2017

PROFESSIONAL EXPERIENCE

Colorado State University	Fort Collins, Colorado
Graduate Research Assistant	Dec 2018 – present
• Research work involves algorithmic optimization of graph search techniques to implement faster access-control.	
Graduate Teaching Assistant for Database Management Systems	Aug 2018 – Dec 2018
• Lectured this graduate-level course in graph databases and access control.	
Graduate Research Assistant	May 2018 – Aug 2018
• Carried out research in health-information and mHealth IoT device security.	
Graduate Teaching Assistant for Systems Security	Jan 2018 – May 2018
• Helped students in understanding fundamental concepts in algorithms and C / C++ / Java programming.	
BMW Group	Chennai, India
IT Service Management Trainee	Aug 2016
• Managed IT resources - printers, workstation implements, communication devices, and servers for the car production plant.	

ACADEMIC PROJECTS

Reinforcement Learning for Random Early Detection Gateways in Packet-Switched Networks	Oct – Dec 2018
<i>Colorado State University – Advanced Networking course project</i>	
• A reinforcement-learning solution to solve the problem of congestion-control using RED.	
TeleScope – an XML Data Stream Broker / Replicator	Nov 2017
<i>Colorado State University – Database Management Systems course project</i>	
• My contribution: an XML control message processor, written in C.	
Self-Stabilizing System for Quadcopters using Neural Networks	Dec 2017
<i>Colorado State University – Introduction to Artificial Intelligence course project</i>	
• A mechanism for quadcopter drones to self-stabilize using neural networks, built using Python, C++ and Unity3D.	

PUBLICATIONS

1. **V. Pagadala** and I. Ray, "Achieving Mobile-Health Privacy using Attribute-Based Access Control." *The 11th International Symposium on Foundations & Practice of Security*, Montreal, Canada (paper accepted) Sept 2018
2. R. Basnet, S. Mukherjee, **V. M. Pagadala** and I. Ray, "An Efficient Implementation of Next Generation Access Control for the Mobile Health Cloud," *Third International Conference on Fog and Mobile Edge Computing*, Barcelona Apr 2018

SKILLS

Python, Java, C++, C, R, JavaScript, HTML, CSS, Git, Neo4j, Unity3d

CERTIFICATIONS

• R Programming by Johns Hopkins University, Coursera Verified certification	Aug 2016
• EMC Academic Associate, Data Science and Big Data Analytics, EMC Corporation	Jan 2016
• Introduction to Programming in C by NPTEL, IIT Kanpur	Sep 2015
• Web Component Development using Java EE, Oracle Workforce Development Program	Apr 2015

ACHIEVEMENTS

• Honorable Chief Minister's Award for Excellence in E-Governance, State Government of Tamil Nadu, India	Oct 2015
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