

# Denver Lobo

Houston, TX 77025

<https://denverlobo.github.io/portfolio/>

321-616-2012 [denverlobo01@gmail.com](mailto:denverlobo01@gmail.com)

## Education

**Florida Institute of Technology, Melbourne, FL**

May 2018

Master of Science in Computer Science

**Visvesvaraya Technological University, Karnataka, India**

Jun 2013

Bachelors of Engineering in Computer Science and Engineering

## Skills

Java, Python, C, C++, C#, AngularJS, JavaScript, HTML, CSS, shell script, NoSQL, SQL, maven, Git, spring-security, TensorFlow, PyTorch, AWS, OpenSSL, terraform, Docker, Kubernetes

## Experience

**L3HARRIS Technologies, Lynchburg, VA**

Aug 2019 – Present

*Specialist Software Engineer (Team Lead)*

- Designed proof of concepts and implemented framework based on IoT to manage connected clients managed on AWS
- Build code modules in AngularJS, python and Java for cloud based application workflow
- Developed J-Unit tests to increase application stability on continuous integration
- Implemented libraries to provision devices at scale with integration with existing toolkits for secure AWS IoT communications
- Manage terraform scripts to deploy application code on CI/CD pipeline
- Developed windows application to perform specialized encryption on secure files

**Contec Americas Inc., Melbourne, FL**

*Software Development Engineer*

Mar 2019 – Aug 2019

- Supported internal databases and production tracking applications using VB .NET ensuring 99% application up time on the production floor
- Maintained Design and Specification documents based on new production process additions to the applications
- Optimized application performance when connected to multiple interfaces for quality testing
- Writing SQL queries to execute procedures and automate manual entry to optimize process

*Computer and Systems Engineering Intern*

Jul 2018 – Mar 2019

- Reduced downtime for embedded systems via system automation
- Provisioned devices with runtime registration using AWS services and OpenSSL
- Designed and implemented IoT framework using AWS
- Designed custom libraries and applications to achieve secure systems in C/C++ and python
- Integrated custom cryptography modules to embedded system in Hardware Abstraction Layer

**Florida Institute of Technology, Melbourne, FL**

Aug 2016 – May 2018

*AI and Machine Learning*

- Presented research paper regarding Learning Time Reduction in the Neural Network Back-Propagation Algorithm in Python achieving faster convergence
- Designed algorithm with reduced time complexity in time dependent shortest path
- Implemented 'Tic-tac-toe' training the game using Supervised learning achieving 97% wins
- Implementing speech command recognition on raspberry pi in python using CNN, Keras
- Worked on comparing recognition rate with respect to lower dimensionality using algorithms based on Principal Components Analysis and Linear Discriminant Analysis

*Data Science*

- Presented research paper on Accidents Network Identification through Complex Networks formation using python and mongoDB

*Student Management System*

- Generated and maintained a 5GB database in MySQL using Java
- Built query procedures which extracted data from user-specified data

**Tech Mahindra, Bangalore, India**

Jan 2014 - Jun 2016

*Software Engineer*

- Developed online transportation system using AngularJS for UI; Backend programmed in Java
- Drafted requirement documents for various modules developed in Java and designed POC's
- Addressed security vulnerabilities against SQL injection attacks

- Integrated code with custom front-end framework, XMF services, digital certificates and followed Agile/Scrum process
- Monitored production code and created J-unit test cases for robustness and stability
- Designed SQL procedures to extract bad data in production database

**IBM India, Bangalore, India**

Aug 2013 - Jan 2014

*Technical Support Representative*

- Provided first line of support to international clients
- Provided analysis and critical support for utilities to operators using ITSM, SAP CRM tools

**Visvesvaraya Technological University, Karnataka, India**

Aug 2009 –Jun 2013

*Client-Server Based Student Information System*

- Developed notification system for university delivering academic updates to user's desktop
- Designed client-server architecture and design including tables in C# and SQL Server

**Projects**

- Implemented convolutional neural network using TensorFlow, AWS, python to classify images
- Developed predictor for campus dining hall to predict student count to reduce food wastage
- Design and integration of capture module for autonomous vehicle IGVC
- Worked with integrating several search engines for custom voice-based inputs
- Assembled and implemented local voice assistant in Raspberry Pi
- Developed Flight Simulator using glut computer graphics libraries in OpenGL and C

**Honors**

- Certifications in Machine Learning
- Microsoft Certified 70-735