

Denver Lobo

Lynchburg, VA 24502

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

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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, CNN, NLP, autonomous driving, Microsoft Certified 70-735