Denver Lobo

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Skills

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

Experience

L3HARRIS Technologies, Lynchburg, VA

Senior Specialist Software Engineer

Mar 2025 - Present

 Led technical strategy and architectural designs for product expansions, increasing code maintainability by 25% to improve audit readiness

Specialist Software Engineer

Aug 2019 - Mar 2025

- Directed cross-functional teams to optimize system design and workflows, reducing deployment lead time by 20%, while enabling more data-driven decisions
- Spearheaded the adoption of a Python-based AWS IoT platform, securely onboarding 40,000+ clients and streamlining onboarding by 40%, attaining 60% in cost savings through serverless architecture
- Orchestrated the migration of legacy Java modules to microservices based on Python, improving fault tolerance by 35% and reducing infrastructure costs by 15% annually
- Standardized infrastructure as code (IaC) using Terraform and automated deployments with Jenkins, ensuring configuration consistency across 3+ environments, from development to production instantly
- Spearheaded the creation of an OpenAPI specification document from inception for deployment via Terraform, diminishing API deployment-related errors to zero
- Streamlined Kubernetes configurations with Helm charts, reducing CPU usage by 20% and improving response times by 30%
- Innovated and delivered two innovative project initiatives during company hackathons, winning top prizes in both competitions

Contec Americas Inc., Melbourne, FL

Software Development Engineer

Mar 2019 - Aug 2019

- Ensured 99% uptime for production tracking applications by maintaining and optimizing systems written in VB .NET
- Orchestrated comprehensive performance monitoring dashboards using SQL, and resolving over ten performance slowdowns, enhancing overall system responsiveness by 15%

Computer and Systems Engineering Intern

Jul 2018 - Mar 2019

- Engineered an IoT framework integrating embedded devices with AWS IoT Core, tamper protection and remote management, and achieved consistent system uptime
- Integrated custom key management system using C/C++ encryption libraries, enabling secure storage and rotation of encryption keys, reducing the risk of key compromise to zero

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
- Presented time-dependent shortest path algorithm with reduced time complexity by 15%, achieving gains primarily through optimization of the time values weighting process, implemented in Python
- Refined a strategic game engine with supervised learning, achieving a 97% success rate in simulations
- Integrated Sphinx, CMU PocketSphinx, and Google Cloud Speech recognition engines, enabling voice commands for Raspberry Pi, with 99% accuracy in recognizing common phrases.

Data Science

• Formulated complex network model using Python to identify high-risk accident zones; model achieved 85% accuracy in predicting accident clusters

Student Management System

• Created a 5GB fault-tolerant MySQL database in Java, optimizing query procedures to boost system performance by 15%

Tech Mahindra, Bangalore, India

Jan 2014 - Jun 2016

Software Engineer

- Engineered key features for a microservices transportation platform using AngularJS and Java, and provided mentorship to 2 junior engineers
- Conducted comprehensive code reviews and static analysis; identified and resolved over 50
 potential security vulnerabilities related to data validation, helping to achieve zero critical
 vulnerabilities in the system
- Simplified communication between services by redesigning, documenting integration specifications, and developing Proof of Concepts, reducing client-reported operational issues by 25% within the first six months
- Enhanced code robustness and stability by monitoring production code and developing J-unit test cases to uphold quality standards
- Optimized code maintainability by scrutinizing production code for potential vulnerabilities, implementing J-unit test cases achieving 95% code coverage
- Redesigned SQL procedures for accurate data extraction and reporting, ensuring integrity and reducing manual errors

IBM India, Bangalore, India

Aug 2013 - Jan 2014

Technical Support Representative

• Expedited the resolution of 90% of incoming technical support tickets from utilities and operators by creating a detailed knowledge base, improving first-call resolution rates

Projects

- Developed a GenAI-powered application with local models and MLOps, generating meeting summaries, identifying key actions, and customizing reports
- Pioneered a data-driven solution using neural networks to anticipate student dining patterns, achieving a 12% reduction in surplus food disposal and efficient resource allocation
- Collaborated in development of Enhanced image capture system utilizing OpenCV and ROS for an autonomous vehicle in IGVC, enhancing object detection precision and lowering latency

Certifications

- Certification in AWS Cloud Solutions Architect by Amazon Web Services on Coursera
- Certification in Cloud-Native Development with OpenShift & Kubernetes by Red Hat on Coursera
- Certification in *Machine Learning Specialization* by Stanford University & DeepLearning.AI on Coursera
- Certification in *Deep Learning* by DeepLearning.AI on Coursera
- Certification in Machine Learning in Production by DeepLearning.AI on Coursera

Education

Florida Institute of Technology, Melbourne, FL

Master of Science in Computer Science

Visvesvaraya Technological University, Karnataka, India

Bachelor of Engineering in Computer Science and Engineering