

Ashton Alva

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Experience

Technician, Freelance

May '23 - Present

Self

Fullerton, California

- Enhanced data center efficiency and optimized server performance by performing **server installations, cabling, and troubleshooting** for a data center setup
- Performed end-to-end setup, assisted in configuration, and migration of Cisco VoIP phones to streamline communication processes and enhance efficiency by **30%** for migration programs
- Successfully installed over 10 network equipment installations for clients, specializing in **Cisco brand equipment**
- Collaborated with support technicians to streamline configuration, installation, and removal of POS systems and peripherals like printers, scanners, and Stripe card readers, resulting in a **20% efficiency boost**
- Managed battery testing and replacement for **1900+ barcode, QR code, and RFID hand scanners**
- Boosted customer satisfaction by 30% through **meticulous adherence to checklists, spot checks, and regular audits** to ensure precise client merchandise placement and display, leading to enhanced inventory turnover
- Supported in the verification and installation of **over 30 client posters and take-ones** using Adobe Acrobat, MS Office, and Canva

Technical Skills

C++, C#, Python, x86 Assembly, HTML, CSS, Git, GitHub, Linux, Windows, Software Troubleshooting, iOS, Android, Hardware Installation, Data Structures (Arrays, Linked lists, Stacks, Trees), Algorithm Design, Class Libraries Development, Data Abstraction, Large-Scale Programs, Algorithm Efficiency, Data analysis, Numpy, Node JS, Flask

Education

Bachelors of Science in Computer Science

Mar '26

California State University, Fullerton

Fullerton, California

- Relevant coursework: Programing Concepts C++, Data Structures C++, Cybersecurity Fnd. and Prncp., Python Programing, Computer Organization & Assembly Language, Intro to Game Design, Calculus 1, Calculus 2, Discrete Math, Linear Math,

Associates in Math and Science

May '23

Fullerton College

Fullerton, California

- Relevant coursework: Preparation for General Chemistry, General Chemistry 1, College Algebra, Introduction to Programming Concepts C++, Calculus 1, Calculus 2, Biology, Introduction to Business

Languages:

English, Hindi, Urdu, Konkani

Certificates

Cyber Security CompTIA, Google IT Support on Coursera, C++, Introduction to Artificial Intelligence (AI), Generative AI: Introduction and Applications, Generative AI: prompt Engineering Basics, Python for Data Science, AI & Development, Developing AI Applications with Python and Flask, Building Generative AI-Powered Applications with Python, Data Analysis with Python, Introduction to Deep Learning & Neural Networks with Keras, Generative AI and LLMs: Architecture and Data Preparation, Gen AI Foundational Models for NLP & Language Understanding, Generative AI Language Modeling with Transformers, Generative AI Engineering and Fine-Tuning Transformers, Generative AI Advance Fine-Tuning for LLMs, Fundamentals of AI Agents Using RAG and LangChain, IBM Generative AI Engineering

Projects

AI-Based Emotion Detection Web Application: - Python

- Developed a Flask-based AI web application for emotion detection, leveraging IBM Watson NLP for sentiment analysis.
- Designed and implemented a text-based emotion detection model, formatting output for enhanced readability.
- Packaged and deployed the application on a web server, ensuring scalability and usability.

Machine Learning Fundamentals Project - Python

- Applied core ML techniques, including classification, regression, clustering, and dimensionality reduction using Scikit-learn, Pandas, and NumPy.
- Implemented algorithms such as logistic regression, decision trees, SVM, k-NN, k-means, DBSCAN, and HDBSCAN to solve real-world problems.
- Conducted model evaluation using metrics like accuracy, precision, recall, F1 score, log-loss, R^2 , silhouette score, and MSE.
- Applied dimensionality reduction with PCA, t-SNE, and UMAP to preserve structure in high-dimensional data.
- Emphasized best practices in model lifecycle: data preprocessing, cross-validation, regularization, and avoiding data leakage.

RAG Chatbot using IBM Watsonx, LangChain, and Gradio - Python

- Developed a Retrieval-Augmented Generation (RAG) application that answers user queries based on uploaded PDF documents.
- Integrated IBM Watsonx Foundation Models (WatsonxLLM, WatsonxEmbeddings) with LangChain for document embedding and LLM-based response generation.
- Implemented a full pipeline: document loading, text splitting, vector embedding (Chroma), and QA retrieval via LangChain's RetrievalQA.
- Built a Gradio web interface allowing real-time question answering using PDF uploads, enhancing document accessibility and usability.