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Jose Naranjo

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EDUCATION

Information Technology Support (A+) & Networks (Network+) **December 2026**
Calbright College - Online **Sacramento, CA**
Relevant Coursework: Troubleshooting & Support Services, Operating Systems (Windows, Linux, macOS), Networking (IP Addressing, Subnetting, Systems Administration), Cloud Computing, Cybersecurity, and Virtualization

Bachelor of Science in Computer Science **December 2023**
California State University, Stanislaus **Turlock, CA**
Relevant Coursework: Artificial Intelligence, Coding and Information Theory, Compiler Theory, Computer Organization, E-Commerce System Design, Human-Centered Design, Operating Systems, Data Structures and Algorithms

Associate of Arts in General Studies: Language and Rationality **May 2021**
Modesto Junior College **Modesto, CA**
Relevant Coursework: Assembly Language, Discrete Structures, Intro to Programming, Probability and Statistics, Problem Solving/Programming I & II, Programming with Visual Basic

SKILLS

- **Programming languages:** Bash/Shell, C++ (Multithreading), C#, HTML/CSS, JavaScript (ES6+), Python, SQL (MySQL, SQL Server), TypeScript
- **Frameworks & Libraries:** ASP.NET Core, Next.js, React.js, Express.js, Tailwind CSS, Bootstrap
- **Data Science & Analysis:** Pandas, NumPy, PyTorch, Sklearn, Matplotlib, BeautifulSoup, NetworkX
- **Cloud & Databases:** AWS (EC2, S3, DynamoDB, Lambda), PostgreSQL, MongoDB, Pinecone, Google Colab
- **Development Tools:** Git, Figma, Postman, Jupyter Notebooks, VS Code, Microsoft Office Suite

EXPERIENCE

Volunteer Web Developer & Social Media Manager **The Veritas Institute** **July 2025 – Present**
Nonprofit initiative supporting educators and institutions in responsible AI use

- Developing and sustaining a responsive, accessible website using Next.js and Tailwind CSS
- Collaborating with leadership to plan a future CMS integration and document technical decisions for long-term maintainability
- Laying the foundation for cross-platform branding by combining web and upcoming social media content strategies

Freelance Back-End Developer **Healthcare Startup** **October 2024 – Dec 2024**
Healthcare Application – Similarity Search | AWS, FAISS, Colab, NetworkX, NumPy, Pandas, Pinecone, Python

- Developed an ML model using FAISS to compare extracted symptoms against a Pinecone database, predicting likely diseases
- Deployed and tested the application in a cloud environment using AWS and Google Colab
- Collaborated with the back-end team to optimize pipelines for the performance of the medical app

Full-Stack Software Development Intern **Bay Valley Tech** **February 2024 – August 2024**
Communication Web Platform | Cloudinary, Next.js, PostgreSQL, Tailwind, TypeScript https://bit.ly/3AhZw33

- Collaborated with a team of five developers to build a full-stack communication platform
- Managed project schedules and tasks using a ticketing system, reliably meeting development milestones
- Designed and developed user-focused UI/UX for web and mobile apps using Figma
- Delivered reliable and scalable application components using a test-driven development approach
- Adapted to changing requirements by applying Agile methodologies throughout the project lifecycle

Undergraduate Research Assistant **CSU, Stanislaus** **February 2023 – May 2023**
Facebook Ego Network - SNA | Colab, Matplotlib, NetworkX, NumPy, Pandas, Python https://bit.ly/3MgDhhB

- Conducted a comprehensive analysis of a Facebook ego network, focusing on circles of friends
- Implemented a predictive model to study how false information spreads among the network's nodes
- Exposing 2% of nodes to false rumors with a 40% chance of being ignored affected about 50% of the network

Undergraduate Research Assistant **CSU, Stanislaus** **August 2022 – December 2022**
Business Sentiment Analysis | BeautifulSoup, Matplotlib, NumPy, Pandas, Python, PyTorch https://bit.ly/42q0ymd

- Led and conducted a study to develop a sentiment analysis model using data sourced from Yelp.com
- Enhanced the analysis by using an NLP neural network to evaluate customer comments with over 95% accuracy
- Analyzed the dataset using machine learning, data analytics, data cleansing, and web scraping techniques and found that sentiment analysis has great potential for practical use within business contexts

Undergraduate Research Assistant **CSU, Stanislaus** **June 2022 – August 2022**
AI Predictive Model – Population Forecasting | Colab, Matplotlib, Pandas, Python https://bit.ly/3BUlDdD

- Developed a predictive model using a Markov chain to forecast population changes in Sacramento over ten years, evaluating AI's role in demographic prediction
- Examined city inhabitants, suburban residents, and commuters. Findings have implications for regional infrastructure development

PROJECTS

Employee Directory App | Amazon EC2, Amazon S3, Amazon VPC, DynamoDB, Application Load Balancer
AWS DevOps Specialization, August 2024 - September 2024

- Designed and deployed a scalable employee directory on AWS (EC2, S3, DynamoDB, VPC)
- Implemented automated image handling and secure data storage for efficient retrieval
- Configured load balancing and auto-scaling to ensure high availability and optimized performance

FireTube - Video | Express.js, MongoDB, Node.js, React.js https://bit.ly/3ZMUcQ6
Bay Valley Tech, January 2024 – March 2024

- Developed a fully responsive, full-stack online video platform compatible with various devices
- This platform enables users to upload videos, like and dislike content, comment on videos, subscribe to channels, and search for videos by title
- User-uploaded raw videos are processed and stored on Firebase, while user and video data are stored on MongoDB

Concurrent File Processing | C++, Multithreading
California State University – Stanislaus, Fall 2023

- Designed and implemented a multithreaded C++ program to optimize file operations, achieving a 42% reduction in processing times compared to single-threaded execution
- Processed large datasets using thread-safe data structures to ensure accurate extraction and analysis of word frequencies across multiple files
- Utilized modern C++ standard libraries for efficient multithreading and synchronization, including std::thread, std::mutex, and std::unordered_set
- Demonstrated scalability and performance improvements by comparing single-threaded and multithreaded execution times

JavaScript Music Player Web Application | CSS, Figma, HTML, JavaScript, Netlify https://bit.ly/3xg5XT2
Bay Valley Tech, September 2023 - October 2023

- Created a JavaScript-based music app with playback controls, shuffle and repeat modes, and volume adjustment
- The user-friendly interface displays album covers, song details, and total duration, and includes playlist access via a convenient down-arrow icon

Video Game Retrieval System | Data Structures, OOP, Python https://bit.ly/3Bh8A5p
California State University – Stanislaus, Spring 2022

- Developed a Python-based software tool to enhance gamers' experiences, allowing seamless updates to a .csv file
- Users receive instant notifications via the interface when specific video game titles are modified, facilitating continuous updates or changes

CERTIFICATIONS

- ***CompTIA A+ Certified – June 2025***
- ***DevOps on AWS Specialization - October 2024 (Coursera)***
- ***.NET FullStack Development Specialization - September 2024 (Coursera)***