

Jason Van Nguyen

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SUMMARY:

- **Proficient in multiple programming languages:** Skilled in Java, Python, SQL, R, and JavaScript with experience in both back-end and front-end development.
- **Strong full-stack development experience:** Led projects using HTML, CSS, JavaScript, Node.js/Express.js, and MariaDB, demonstrating versatility in both server-side and client-side technologies.
- **Hands-on experience with data structures and algorithms:** Applied knowledge in implementing and optimizing various algorithms and data structures in academic and personal projects, improving performance and efficiency.
- **Database and API management:** Experience designing, managing, and optimizing databases (e.g., MariaDB, IBM Db2) and integrating APIs into web applications.
- **Military service and discipline:** As a Combat Medic/Healthcare Specialist in the U.S. Army Reserves, developed strong problem-solving skills, discipline, and the ability to work under pressure with any group of people, enhancing effectiveness in high-stress environments.

SKILLS:

Technical Experience:

- Programming languages – Java, SQL, Python, R, JavaScript, PHP, C
- Data structures – runtime analysis, arrays, linked lists, stacks, queues, hash tables, binary search trees, depth first search/breadth first search
- Algorithms – time and space complexity, sorting algorithms, graphing algorithms, various programming algorithm techniques (brute force, greedy, dynamic, divide and conquer, backtracking, heuristic)
- Full stack web development – frontend (JavaScript frameworks), backend (API implementation)
- Database models/management – relational database management systems, entity relationship diagrams
- Linux environments – virtual machines, web servers, command line interfaces

Tools Experience:

- Git
- MySQL
- R Studio
- Power BI
- ServiceNow

EDUCATION:

University of Arkansas – Fort Smith – Fort Smith, AR

August 2024

Bachelor of Science in Computer Science, Minor in Mathematics

- GPA: 3.46, Dean's List for 5 semesters
- Relevant coursework: Data Analytics, Statistical Computation, Artificial Intelligence, Database Systems, Data Structures, Algorithms
- Received the Certificate of Student Professional Development - Silver Level
- UAFS Lady Lions Volleyball manager
- UAFS Volleyball Club member/coach

RELEVANT PROJECTS:

Senior Capstone Project – TournaSmash Tournament Manager

- Full stack application created to improve the tournament organization system of the Fort Smith Super Smash Bros. Ultimate weekly event
- Utilized JavaScript, Node.js/Express.js, HTML, Bootstrap, MariaDB, Apache, and openSUSE Leap server
- Created web interface to optimize tournament user experience leveraging Challonge web APIs
- Assumed team lead role and led the design and management of the web server and database as well as deploying the project to live production environment
- Tasks performed: Server-related setup – network configurations, database creation/setup/SSL, encrypted domain connection, Application functionality – user login/register, rankings page, tournament creation/details, tournament register/unregister, check-in actions, record match winner, set scores

Statistical Computation Project

- Dataset - Drug overdose death rates, by drug type, sex, age, race, and Hispanic origin: United States
- Statistical analysis of demographic trends and relationships of a dataset for drug overdose death rates in the United States with t-test, analysis of variance, and regression methods using R and Excel Analysis Toolpak

Database Systems Project – Bakery Point of Sale System

- Utilized Java Swing, IBM Db2, and NetBeans to implement a Create, Read, Update, Delete (CRUD) application to simulate a bakery store
- Shopping cart implementation – add to order, cost-controlled inventory management, order logging

Artificial Intelligence Project – Neural Network

- Utilized Java to implement a neural network from scratch with the goal of classifying handwritten digits
- Loaded data into two-dimensional array data structure and used z-score normalization
- Used the batch gradient descent algorithm to optimize the parameters of a model of 15 features and 60 records

WORK HISTORY:

Haraway Designs – Little Rock, AR – harawaydesigns.com

May 2024 – Present

Website Developer/Administrator

- Deliver desired website design per owner's request aligning with business goals
- Manage and maintain the website to improve customer engagement and search engine optimization (SEO)

ArcBest Technologies – Fort Smith, AR

July 2022 – January 2025

Information Center Intern

- Workstation roll-out processing/handling for MoLo domain conversion and intercompany users
- Aided in field support operations for all service stations/shipping docks across the country
- Provisioning handheld device SIMs and security cameras
- Developed upon troubleshooting, multitasking and corporate communication abilities

U.S. Army Reserves – Little Rock, AR

June 2017 – June 2023

Combat Medic/Healthcare Specialist

- Performed patient care and supervision
- Developed abilities to collaborate with interdisciplinary teams through leadership, accountability, and discipline while upholding the Army Values

Kirkham.IT – Fort Smith, AR

December 2021 – July 2022

Network Admin Intern

- Help desk support for 20 small to large-sized businesses such as non-profit organizations and medical facilities
- Resolved tech issues and inquiries through Freshdesk ticketing system, phone, email, and on-site visits