

Blake Karbon

2117 6th St Greeley CO

blakekarbon@gmail.com 720-404-0695

Portfolio: <https://balakekarbon.github.io/> Github: <https://github.com/BalakeKarbon/>

OBJECTIVE: To leverage my strong affinity for computation and software development to help clients improve performance, productivity, and innovation, as well as employee and customer satisfaction.

COMPETENCIES:

Intrapersonal and Interpersonal:

- Collaborating effectively as a team, optimizing responsibilities based on individual skill sets.
- Maintaining clear communication with team members to ensure successful collaboration on shared projects and code.
- Maintaining a positive, "can-do" attitude to promote productivity and motivation within the team.
- Blending creative, out of the box thinking with strong analytical and problem-solving skills.
- Consistently curious and a quick learner.
- Focusing on quality and attention to detail

Software Development:

- Comprehensive and detailed understanding of processors, software, build processes, and execution environments.
- Ability to quickly adapt to different environments due to comprehensive and detailed understanding of computation.
- Full Stack software development with safety, data integrity, and stability.
- Developing portable, efficient, and scalable software.
- Common languages, environments, and technologies: AI, Evolutionary Algorithms, C, C++, Java, Rust, Assembly, Spice, Python, Web Technologies, MySQL, MongoDB, Alpaca Trading API, Matlab, Linux, Git, Vim.

Client Relations:

- Fostering strong relationships with consulting clients, working collaboratively to exceed mutual goals.
- Effectively communicating with clients to translate their needs and requirements into solutions.

Product Delivery and Maintenance:

- Maintaining and hosting services with tools such as Apache, nginx, and nodejs.
- Setting-up and configuring secure hardware for hosting services locally or remote services using solutions such as Amazon Web Services.
- Optimizing host systems.
- Maintaining software to ensure security and reliability.
- Modifying software to introduce new features or improve functionality.

PERSONAL PROJECTS:

Designing a computer like it's 1962:

- Designed logic that met 1962 limitations while implementing an instruction set that could support improvements such as pipelining and parallelism.
- Developed software to de-compile and analyze instruction probability across system binaries of different processor architectures.
- Electrically simulated circuits using Ngspice to optimize processor structures.
- Made structures using breadboards and physical components to verify reliability and simulated function.

Self-educating AI by developing an Artificial Neural Network in java:

- Wrote an Artificial Neural Network in java from the ground up.
- Implemented evolutionary algorithms to artificially breed and optimize neuron structures.
- Trained and applied Neural Network to character recognition and logic processing to verify function.

Developed and deployed my web portfolio:

- Developed an artistic, unique, and custom website that demonstrates web development skills.
- Created a unified location to access more project examples and other related information.

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- Optimized website for smooth usage and accurate representation on a multitude of devices with varying resources.
- Ensured website is clear and memorable for visitors.

WORK EXPERIENCE:

Conquest Classic Cars – Greeley, CO

Classic Car Technician, 10/2022 - 4/2023

- Utilized problem-solving skills to successfully repair rare and complex systems, which were unfamiliar to other technicians in the shop. Regarded as the “Tinkerer.”
- Proactively took on challenging projects that others deemed too difficult or complex to undertake.
- Known as the go-to person for resolving complex and intricate issues.
- Effectively communicated with clients to describe solutions in a clear and concise manner.
- Collaborated with clients to understand their specific project objectives and goals.
- Utilized research skills to locate obscure information required for project completion.
- Supported colleagues and maintained a positive attitude.
- Fostered a supportive culture by lending tools and equipment to other technicians when necessary.
- Established a friendly rapport with coworkers while maintaining a professional demeanor.
- Worked alongside management to identify areas of operational inefficiencies and recommend solutions to optimize company productivity.
- Trusted with all keys and codes to open and close location.

Van Why’s Repair and Service – Pierce, CO

Heavy Duty Diesel and Agricultural Equipment Technician, 11/2020 - 9/2022

- Diagnosed issues and repaired or modified machinery.
- Found solutions to issues on machines never seen before.
- Rebuilt engines, hydraulics, carburetors, differentials, breaking systems, transmissions, etc.
- Manufactured custom components and solutions when needed.
- Documented all work and materials used.
- Performed field work.
- Explained entire solution to clients.

Harbor Freight – Highlands Ranch, CO

Logistics, 07/2020 - 09/2020, Part Time

- Replenished product on the floor.
- Updated product inventory.
- Helped customers find solutions to their projects.
- Established relationships with customers.
- Learned about product and its’ purpose to better assist customers.

Colore Italian Restaurant and Pizzeria – Denver, CO

Multiple Roles, 12/2018 - 03/2020

- Designed the menus.
- Provided catering.
- Formed strong relationships with customers leading to repeat business.
- Communicated with the team in Spanish including translation.
- Provided communication between front and back of house.
- Aided front of house with busing.
- Aided others on their stations.

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- Opened and closed the restaurant.
- Prepped food.

Via Baci Modern Italian Kitchen – Loan Tree, CO

Line Cook, 02/2016 - 12/2018

- Managed a wood burning oven.
- Cooked all stations on the line.
- Aided others on their stations.
- Provided communication between front and back of house.
- Prepped food.
- Opened and closed the restaurant.

Server Cooling and Consulting Startup OBICool LLC – Parker, CO

Co-Founder and Chief Software Engineer, 05/2016 - 11/2016, Part Time

- Worked with a team integrating knowledge of software and hardware engineering to do research and development for high performance computer cooling.
- Developed monitoring equipment for the cooling tanks.
- Wrote a full-stack solution including a custom REST API to manage and monitor the tanks.
- Tested computing hardware in the cooling tanks, recording and analyzing the results.
- Developed example products and services within a limited budget.
- Integrated tank management equipment and sensors with the front-end interface.
- Aided in design of the tank using knowledge of computing hardware (allowing network through the tank etc.). Managed, setup, and configured remote Linux systems.
- Aided in production of the presentations for clients.

Blue Calf Consulting – Parker, CO

Software Engineer, 04/2015 -05/2016, Part Time

- Developed a full-stack solution to provide data analytics and manage company inventory.
- Provided warehouse location, SKU number, stock, and product information through an interface.
- Developed a front-end that allowed clients to login and view a live feed of company inventory.
- Developed a smooth web interface for accessing the company's database using optimization techniques, application of new procedures, and API's.
- Secured access to the database using excessive knowledge of modern security holes and common practice such as preventing XSS attacks and authentication.
- Reliably hosted the service using an Apache web server on multiple Linux based systems.

EDUCATION:

University Of Northern Colorado, Computer Science, Currently Enrolled

Metropolitan State University of Denver, Computer Science, Computer Engineering 2018

Note: Faculty facilitated a jump to higher level courses and self-directed learning.

Arapahoe Community College, Computer Science, Computer Engineering, 2017

Chaparral High School 2017