

# Blake K. Karbon

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Ambitious Self Driven Software Engineer looking to get back into IT in order to keep up with bleeding edge technologies and aid the world with his talents.

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## Previous Work Experience:

### **Blue Calf Consulting** – Parker, CO

Software Engineer, 02/2014 to 02/2016, Part Time

I developed a front-end and back-end solution to provide data analytics and manage company inventory. This allowed clients to login and view a live feed of company inventory. Warehouse location, SKU number, stock, and product information were provided through the interface. Through optimization techniques and the application of new procedures and API's I was able to develop a smooth secure web interface for accessing the companies database.

#### Key Contributions:

- Securing access to the database using excessive knowledge of modern security holes and common practice such as preventing XSS attacks and authentication.
- Providing access to the database in an intuitive user interface written with JQuery, express.js, D3.js, and PHP.
- Reliably hosting the service using an Apache web server on multiple Linux based systems.

### **Server Cooling and Consulting Startup OBIcool LLC** – Parker, CO

Co-Founder and Chief Software Engineer, 02/2014 to 02/2016, Part Time

I worked with a team integrating my knowledge of software and hardware engineering in order to do research and development for high performance computer cooling. I was tasked with developing monitoring equipment for the cooling tanks we were producing, developing the software to manage these tanks, aiding in building the cooling tanks, testing computing hardware in the cooling tanks, and helping write presentations.

#### Key Contributions:

- Developing example products and services within a limited budget of which we could comfortably present to customers.
  - Developing a modular API for managing and monitoring the tanks.
  - Developing a front-end user interface for monitoring and managing the tanks.
  - Integrating tank management equipment and sensors with the front-end interface.
  - Aided in design of the tank with knowledge of computing hardware. (getting network through the tank etc.)
  - Aided in production of the presentations for clients.
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## Education:

High School Diploma with 2 completed years of college through Arapahoe Community College and Metropolitan State University of Denver focused on Computer Science and Computer

Engineering. Out of class communication with department faculty allowed me to jump ahead into higher level courses allowing me to dig deeper into my degree.

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#### **Technical Skills:**

Extensive development in Java, C, JavaScript, PHP, Verilog, Python, HTML, and CSS allowing me to adapt to other new languages. Management and common use of Linux/Unix, Windows, Android, and DOS systems. Usage of common tools such as Atom, Git, Vim, Nano, GCC Collection, the Apache Suit, Nginx, and Node.js. Deep understanding of Computer Architecture, File Formats and Structures, Data storage and manipulation, Encryption, Hashing, and Processing Time and Parallelism.

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#### **Personal Projects:**

- Made my portable development computer out of a lunchbox
- Self taught myself how to write a neural network in java for character recognition
- Self taught myself computer architectures, occasionally designing my own in Verilog using personally developed tools for aid
- Making my own personalized dynamic website to represent myself
- Writing a financial instrument AI trader in java using evolutionary algorithms and machine learning to adapt to market patterns