

BRIAN HERMAN

PROGRAMMER | UNDERWRITING AUTOMATION

[GITHUB.COM/BRIANHERMAN](https://github.com/BrianHerman)

[HTTPS://WWW.LINKEDIN.COM/IN/BRIAN-HERMAN-092919208/](https://www.linkedin.com/in/Brian-Herman-092919208/)

SKILLS

US Citizen
Python 2 & 3.9
Javascript es5,es6
Jquery and React, Vue
Pandas, DataFrames
Tensorflow
Deep Learning
Data Cleaning
JQuery, React, Swift
Faxing
Basic Security
Administration
SMTP
State Compliance
Object oriented
design patterns.
VUE

OBJECTIVE

To become the best software engineer you have ever seen. To do whatever my boss tells me to do in the fastest and least expensive way possible.

EXPERIENCE

PROGRAMMER • PRODUCERS NATIONAL • INSURANCE • 2014 – PRESENT

Most Impactful Projects

- Produced payment app that handles hundreds of thousands of dollars of payment per day. This project used javascript, jquery, python, wordpress and HTML 5.
- Created insured portal within one year with 100% of the code written by me and traveled to Alabama to get the job done. . This project used also used javascript, jquery, python, wordpress and HTML 5.
- We are migrating the old insured portal which I created to AWS API Gateway, Lambda and python 3.8. This used aws lambda, aws vpc, python 3.8, mongodb, and aws dynamodb. Unfortunately, I tried to push them to use cognito. To not make the mistake I did with my insured portal. They didn't listen and rolled their own authentication.
- I spent 6 months creating a Twilio phone system with vue.js but I canceled the project because it was taking too long to develop. All of the code was by myself. We switched to Amazon Connect and



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AWS SKILLS

AWS, Amazon Lex,
Elastic Block
Store(Virtual Hard
Drives),
AMI Creation with
EBS,
How to image your
system on amazon.
Elastic Compute
Cloud
Amazon's version of
Virtual Machines
Amazon LEX, Connect
and Lambda.
I prototyped and
automated voice
system with amazon
connect/lex and
lambda.

then that allowed me to create a prototype of an automated IVR system that takes payments over the phone.

Other Projects

- Created Fax to email with Twilio and AWS lambda and python I cannot recommend Twilio to anyone due to the complexity and price of their system. Amazon is much better in this respect because they will not turn off a system and there are much better alternatives for faxing like [ringcentral](#).
- Setup VPN to allow company to work from home during pandemic.
- Created backup AWS EC2 VPN that had a custom python authorizing function to authenticate with active directory.
- Lead workshops on things that have made me successful such as technologies I am familiar with: GIT, Linux, Bash, AWS Lambda, Deep Learning/Data Cleaning, Networking
- Setup Amazon Workspaces, and AWS Active Directory to connect to our on premises active directory
- and More features of AWS VPC which both were setup by me
- Created prototype of automated voice recognition system to take payments over the phone. Powered by Amazon services LEX, Lambda, and Connect.
- Lead design of state compliance for verification of auto insurance for the following states: Arizona, Illinois, Texas, Louisiana, Mississippi
- Future lead of design for Utah, Louisiana, Florida.
- Created custom insured portal that interfaced with separate system using SOAP/XML [Insuresoft's](#) Diamond.
- Got certification for Diamond Composer
- Maintained SOAP library to communicate with Diamond. Which is a fork of [pysimplesoap](#).
- Tracked errors and bugs with self-hosted Sentry.io instance on Amazon.
- Every performance review has been positive.



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- Created Documentation for Cisco managed network switch network
- Created documentation for [hylafox](#) web to POTS(Non cell phone AKA Land Line) faxing system.
- Automated Cancelation and Reinstatement for Underwriting that allowed us to expand in more states without increasing headcount. President of Company stated that we would have had to hire 4 people to do what my program does automatically.
- Created feature to allow our customers to enable automatic monthly payments through our website which helped us retain them as customers for longer periods.
- Trained boss and colleagues to use GIT. Was so successful that we bought paid plans for [github.com](#).
- Created prototype of swift app but due to management we decided against it.

Dealt with multiple production Issues

- Examples include:
- Recovery of the Integration Services Server.
- Each minute when this server is not operational.
- Money is lost because this is how our quotes are processed.
- Quotes are immediately turned into new customers and issued documents.
- Recovery of my own managed server when colleague misconfigured SSL Certificate with Apache.
- Restarting of Linux/Windows Services/VM/Lambda Functions and Servers for business continuity.

Work Ethic:

- I never have had a negative performance review.
- All performance reviews were positive and with different goals.
- Previous goals include:
- Reduce Number of Tickets



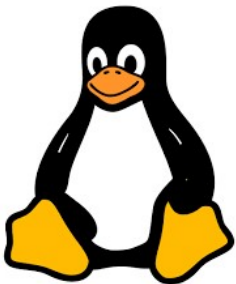
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- Merge 50% more code
- Reduce 50% of Bugs
- Innovate on two new things on aws per year since my 3rd year when we finally made the switch.
- Year 2 Created automated batch cancel/reinstate script underwriting department loves it!
- Year 3 Started to prototype insured portal on AWS ec2
- Year 4 AWS EC2 and VPN
- Year 5 AWS LEX, Connect, and Lambda)
- Year 6 Beginning of deprecation of current insured portal and move to AWS lambda. I took an advisory role to my new boss.
- Year 7 only did backend programming for my new boss.
- Before COVID I did helpdesk with the whole team during a computer virus epidemic. The root cause was Kaspersky.
- I was gradually transitioned from Helpdesk to Training Guru.



CURRENT SIDE PROJECTS

MY SERVER FARM

PART 1

OBJECTIVE

A ubuntu linux based deep learning cluster. With a remotely accessible custom android interface.

PARTS LIST

PHONE

- Huawei Honor Android device
- Will side load my own APK written in C# with and ssh-key and [wireguard](#) to initiate kill switch and remote erase.



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- It will also notify me if there are any problems with the firewall basic status too much data going in/out

Development Machine Ubuntu 20.04LTS

- AMD Ryzen 5900X
- Two sticks of GSKILL Ram running at 3600 MHZ
- Gigabyte 2080
- 4tb NVME Intel Drives for Video Games
- 4tb NVME for Backups
- HP Storage works ULTRUM 3280SAS for backups.

Second Development Server/Router

- AMD Threadripper 1920X
- 8 sticks of 2133mhz ram for 64gb of ram
- Gigabyte 2080
- HP Storage works ULTRUM 3280SAS for backups.

Main Processing Server (My brother bought this one) But I assembled it.

- Ryzen Threadripper 3960X
- 128gb of Ram
- 1x Titan RTX with 24gb of VRAM
- 1x 2080 8gb
- 1x 24gb Tesla card

PART 2 INCOMPLETE

1. Networking Equipment
2. Ubiquity Firewall
3. 2x mikrotek 10gb switches.

PART 3 INCOMPLETE

Link all computers to 10gb ethernet when starlink device arrives.



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BASIC IOT DEVICE HD598SE+BLUETOOTH

PHASE 1 COMPLETE

OBJECTIVE

To create a Bluetooth IOT device with off the shelf components.

PARTS LIST

- Plastic Bag – Water Proofing For battery
- Sennheiser 598SE – Audio Production
- Sennheiser audio cable I found at
- Metal USB Battery I got at an Insuresoft Conference
- 1 Inch USB cable

MICROSOFT SKILLS

OS Windows Seven 8.1 10 Versions 1909-2004 and H2, Server 2012-2019

- Connecting my computers to a domain controller.
- Setting up a Domain Controller on Windows 2016.
- Setting up Microsoft DNS in an emergency on premises at work.
- Basic Azure Administration.
- Microsoft Teams
- MSSQL Sys Op Maintenance and Deployment

LINUX SKILLS

Ubuntu Linux and Debian Linux extensive experience.



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LEADERSHIP ROLES

President of Linux Users Group at College of Dupage

President of Linux Users Group at University of Illinois at Chicago

AWARDS AND CERTIFICATIONS

3rd Place Award at High School Chess Tournament Organized by Downers Grove South with an award-winning Chess Coach. Mr. Mayfield

SELECTED GITHUB PROJECTS

AUCTION • MARCH 2018 • PERSONAL

[HTTPS://GITHUB.COM/BRIANHERMAN/AUCTION](https://github.com/BrianHerman/Auction)

TLDR; This project linked AWS Alexa with eBay.

I started this project without looking if it was monetizable.

However, it is completely my own and a perfect example of my coding practices from March 2018. I would love to apply those skills to create a new voice activated Bbay competitor but voice activated sales are not there yet. If you look at the Geico app on AWS you can count the numbers of the reviews on one hand.

SCHOOL PROJECT • MARCH 2018 • PERSONAL

[HTTPS://GITHUB.COM/BRIANHERMAN/CS342PROJECT5](https://github.com/BrianHerman/CS342PROJECT5)

This is a project that is from UIC that I will use to sue Microsoft for copyright infringement because they put it into their product Github Codepilot.



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EDUCATION

EECS • 2009-2014 • UNIVERSITY OF ILLINOIS AT CHICAGO
ASSOCIATES OF ARTS • 2006-2008 • COLLEGE OF DUPAGE
DOWNERS GROVE SOUTH HIGH SCHOOL 2002-2006