JARED RATNER
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TECHNICAL SKILLS

Certification: CompTIA A+ certification, Full Stack Software Engineer Holberton Certification
Programming Languages: Python, C#, C, C++, Bash/Shell, Kotlin, Java, mySQL, SQLite, Ruby, JavaScript, HTML5, CSS, PHP, Basic
Frameworks: .NET & .NET Core, Blazor, Django, Flask, React, AngularJS, VueJS
Additional Technologies: BitBucket Pipelines, Github, Redis, MongoDB, MQTT, CertBot/LetsEncrypt, Docker, Docker-compose, Docker swarm
Operating Systems: Windows 10/11, OSX, Ubuntu, debian Linux, Android, iOS, Windows Server 2008-2020

EXPERIENCE

Software Support Engineer, Ancera LLC   **Branford, CT 2021- current**
- Design and implement systems and security solutions for AI powered rendering servers
- Established and guided technology division for internal and external beta of products.
- Create and test CI/CD software Pipelines for BitBucket with automated security sniffing and code linting
- Read and follow through on creating solutions for tickets involving security holes in all pieces of code base

Software Engineer, *Bodangly Software*   **New Haven, CT   2020- 2021**
- Design and program object-oriented solutions for IoT devices
- Create connection API and SDK for IoT devices to Azure Hub
- Utilize Django to develop API for connection from IoT devices to React based front end
- Wrote a C based program to create drivers for an nVidia GPU for visual processing on IoT devices
- Constructed a Vue front end for Litecoin crypto exchange website.

Software Support Specialist, *V-Technologies*   **Cheshire, CT   2018**
- Assessed complex customer inquiries and responded promptly to service requests
- Swiftly and accurately applied customer change requests
- Created guides for clients and internal support personnel
- Documented bugs and errors into CRM software
- SQLlite used to send information over APIs to shipping companies such as FedEx, USPS, etc.
- Database administration in RDS environments and Python scripting to automate business functions on servers such as data ETL, business automation through timed API calls.

IT Technical Intern, *National Physician Services*   **Rocky Hill, CT   2017**
- Installed, maintained, and updated IT infrastructure
- Managed connectivity of hardware and software
- Configured storage for optimal accessibility and security
- Created and executed drive imaging

Network Administrator/Web Designer, *Ben and Jerry's*   **Canton, CT   2015-2016**
- Collaborated with client to identify required network architecture
- Configured and installed local network infrastructure
- Performed website design and development

ITS Help Desk, *Eastern Connecticut State University*   **Willimantic, CT   2014-2015**
- Technical assistance and resolution of hardware and software problems
- Assisted and advised on installation, configuration, and performance issues
- Password verification and reconciliation
- Trained clients to utilize university systems and software

PROJECTS

Litecoin exchange
- Coding technologies used on this project: Python, Flask, VueJS, crypto wallets, NGINX

Designed and coded a VueJS front end for crypto exchange website. Designed a Flask API to connect the python back end and the VueJS front end. Optimised speed and transaction of backend currency handling and payments to and from crypto wallet.

Azure IoT device provisioner/Azure IoT device connection
- Coding technologies used on this project: Python, Django, MQTT, SignalR, Azure IoT Hub, Azure IoT Central, Javascript, React

Embedded script running from the IoT devices designed to contact Azure IoT Hub and provision IoT devices. Also designed embedded scripts allowing for the IoT device to continually contact and handle commands coming from Azure IoT Hub. Designed and coded a front end to control provisioned devices in React. Designed and coded Django API to connect the backend and React front end.

S.P.A.C.E.(Space Paradox And Combat Environment)
- Coding Technologies used on this project: HTML5, CSS, JavaScript, Phaser3 framework, AJAX, MySQL, Node,js
- Server technologies: Apache 2, SSL security, RedHat linux server, OpenFirewall

A tower defence game, designed for the final project at Holberton. It was fully created within three weeks, and built in the style of old flash games, using modern technologies. The game itself was built using the Phaser3 framework in javascript. My responsibilities for this joint-project were setting up the backend linux server including: load balancers, firewall setup, design and implementation of a MySQL database, as well as setting up AJAX api calls to pull scores from the game to be sent to the database.

HBNB (Holberton AirBnB clone)
- Coding technologies used on this project: HTML5, CSS, Python, Django, SQLAlchemy, Flask, MySQL
- Server technologies: NGINX, HAProxy, OpenFirewall, Ubuntu 16.14 server

An AirBNB clone built using mainly Python and Python frameworks/technologies. Dynamically generated page templates designed using Django and SQLAlchemy (an ORM for MySQL request management). I created a full working AirBNB clone with account creation, post creation and leaving reviews on posts, all updating to a MySQL Database. I Implemented optional location services for post creation. I also set up my own servers from scratch using NGINX as out web server software, Ubuntu 16.14 server. I ran two of those servers, and a third load balancer which ran HAProxy and OpenFirewall.

Bad Wheel of Fortune (Urban Dictionary Wheel of Fortune)

- Coding technologies used on this project: HTML5, CSS, JavaScript, API calls, AJAX, MySQL, ReactJS, RapidAPI, Express

A Wheel of Fortune style game that uses short phrases from Urban Dictionary based off of input words. The user can use a premade list of words to search for on Urban Dictionary or make their own list. An API call goes out for up to 10 words. Then the game picks sentences based upon the words used with less than 120 characters that are pulled in from JSON object from the API call. One round for each word is input. Points are randomly picked from 100-1000 points. Letter selection is done with a mouse click on letter blocks on screen. As letters are selected they gray out and are unselectable until the next phrase. The letters selected will appear in blocks on a canvas. All run locally on an Express server.

Search Autocomplete (Auto fills as you search)
- Coding technologies used on this project: HTML5, CSS, ReactJS, Node.js

A react application that searches through a file containing all United Nations member states, one on each line. It checks to see if the text input has changed. If it has changed, it will search through the file of the country names in the form of a regular expression, checking letters against each other, suggesting options that contain the same letters in the same order until you either select an option or until you type in enough letters that no other country names match.

Weather App (finds location and weather for location)
- Coding technologies used on this project: HTML5, CSS, ReactJS, Node.js, google location services. API calls.

API calls to open weather API. A react application in which you type in city name and country into the input boxes. It also allows for a Google location services call to be made, which then pulls in the city and country location. In turn, an API call is made to open weather for the named location. The react application then displays the current temperature, humidity, and conditions. It also produces an error message if an API call is unable to be done/unable to receive back information.

Monty (console command memory stack interpreter)
- Coding technologies used on this project: Python

This project for Holberton was started by creating a custom console to take input commands. When the Python program is called, the custom console shows up. It is able to take in pre-determined commands, in this case the words pop, push, pall, pint, and swap. The commands could be entered one at a time, or read from a plain text file. The commands controlled a memory stack in which integers could be stored, swapped, shown in order, and removed from the stack as needed.

Ben & Jerry's website
- Coding technologies used on this project: HTML5, CSS, JavaScript

A web design project, where I designed a template and eventually full website for a major Ben & Jerry's franchise. The template was adopted by Ben & Jerry's corporate for use on all franchise websites around the world.

EDUCATION

Holberton School of Software Engineering, New Haven, CT
Full Stack Software Engineer

Eastern Connecticut State University, Willimantic, CT
Major: Computer Science
Completed 39 credit hours