

Benjamin Charlot

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I'm Benjamin Charlot, an engineer who has over 1-year hands-on results in resolving technical issues for over 15 clients per day, ability to explain complex concepts in layman terms, and proficient in administrating and maintaining Linux/Unix environments.

CERTIFICATIONS: [Amazon Web Services Solutions Architect Associate\(2020-2023\)](#) **EDUCATION**

University of Massachusetts Boston | Boston, MA

2017-2021

Bachelor of Science in Information Technology | Concentration: System Administration

RELEVANT PROJECTS

[WordPress Website](#)

- Coded an entire infrastructure that contained a virtual private network with subnets, a database, a load balancer, and a containerized application (WordPress) using Terraform to allow easy patching for security flaws and to upgrade software with ease just from the coded template.
- Monitored the CPU and RAM of the docker image via CloudWatch using metrics that notified if any resources exceed a certain threshold based on memory usage and cost. Used it to gauge whether costs can be slashed if the threshold is never met by using a lesser CPU and RAM option or vice versa.

[Resume Website](#)

- Obtained a domain name from DNS service provided by AWS configured with DNS failover. This guarantees that if the website fails it will redirect traffic to another instance of the website for high availability and uptime.
- Provisioned an SSL certificate from AWS to allow HTTPS and stored website files in a S3 bucket. This ensures that the website is protected from outside threats and trusted by visitors and their browsers.
- Scripted the visitor counter using Python that stores the count in a NoSQL database(DynamoDB). This script is invoked by an API gateway that is attached to the website that raises the counter for each click on the website.

Bootstrapped MySQL Virtual Machines

- Automated the installation of MySQL in two EC2 instances by creating a bash script that installs the application and its dependencies reducing admin overhead and time.
- Scaled the EC2 instances by putting them together inside an auto scaling group. This allows them to automatically scale if they are put under heavy load or traffic to safeguard from downtime and ensure scalability of the databases.

LANGUAGES: Python, SQL/NoSQL, Unix/Linux, HTML, CSS

TECHNOLOGIES: Amazon Web Services(EC2, ECS, S3, VPC, Route53, RDS, DynamoDB, Lambda, CloudFront, API Gateway), Docker, Terraform, Puppet

WORK EXPERIENCE

UMASS Boston; Boston, MA

Audio Visual Technician

1/18-6/19

- Supported professors by providing IT solutions to concerns that ranged from projection to Internet matters such as Ethernet, Wi-Fi, DNS and DHCP to promote smooth flow of course sessions.
- Populated the database FileMaker with professors' confidential details, to successfully track inventory and secure safe possession of equipment.
- Troubleshooted audio and visual issues over the intercom by using Extron GlobalViewer Enterprise to access the AV control panel of the classroom with the issue remotely.
- Provided and organized equipment such as laptops, adapters, microphones and TVs to professors and graduate students to prepare for major course events and sessions.
- Deployed laptop and iPad carts to classrooms based on tickets sent by professors on UMASS Boston's ticket system Bookit that monitors and creates reservations for our carts.
- Employed our ServiceNow system to record the client's credentials, the classroom location, and the issue at hand; each issue was either marked as solved or required further actions to mend.

The Cambridge Department of Public Works (DPW); Cambridge, MA

Park Maintenance Worker

7/15-8/15

- Supported DPW staff across Cambridge/Somerville area to develop safe park environment for local children.
- Promoted Cambridge city sanitary goals through implementation of litter reduction procedures.

Mayor's Program; Cambridge, MA

Green Advocate

7/14-8/14

- Advocated for the development of Hubway in Cambridge through direct mail distribution.
- Advised households and businesses of the importance of solar energy through face-to-face interactions.
- Provided excellent customer service to new and current clients by resolving concerns and assisting as needed.