

Ayush Sahu

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[Ayush Website](#)

EDUCATION

The University Of Massachusetts Amherst, College of Information and Computer Sciences **Amherst, MA**
Bachelor of Science in Computer Science, Honors, Dean's List **Graduation Date: May 2021**
GPA: 3.9/4

SKILLS

Programming Languages: Java, C#, C++, Python, Dart, JavaScript, D3, MATLAB

Technical Skills: GCP, Azure, Virtualization, Docker, Kubernetes, Splunk, Jenkins CI/CD, Machine Learning, NLP, OpenCV, Flutter, Cross-Platform Apps, Linux, Bash scripting, SQL, Database Management, System security.

WORK EXPERIENCE

Citrix **Boston, MA**
Software Engineer - Machine Creation Services (Google Cloud Platform) **May 2021 – Present**

- Refined disk workflow and implemented a faster compression algorithm that cut provisioning time by 67% in my first month, making GCP one of the fastest public clouds supported by Citrix.
- Designed and implemented services to support PVS(streaming OS to VMs over the network) on a public cloud platform.
- Owned and drove the scale initiative to improve overall performance of Citrix Cloud on GCP.
- Improved existing testing processes by creating automation scripts to reliably test and benchmark new features.

Citrix **Boston, MA**
Software Engineer Intern - Machine Creation Services **May 2020 – August 2020**

- Worked with a team of 6 engineers to deliver value-driven, time-sensitive features on Google Cloud Platform.
- Led an essential story to completion which helped increase the overall reliability of the builds and the testing infrastructure by 83%.
- Automated a deployment process to reduce active developer effort from over 2 days to under 15 mins, saving upwards of 5000\$ per deployment.
- Created Splunk dashboards using creative queries to monitor the adoption and usage of new features.

PROJECTS

Need a Swipe? Got a Swipe! **August 2019**

- Developed a cross-platform (Android, iOS, and Website) app using Flutter to fight food insecurity at UMass, by connecting people who have spare meal swipes and those who need meal swipes.
- Set up NoSQL Cloud Database to store a database of users and recent posts.
- Implemented password-less authentication for a frictionless login experience.
- Users can Create, Read, Update and Delete their posts and chat (end to end encrypted) with other users.

TV IMDb Reviews Heatmap (<https://bit.ly/TVHeatmap>) **August 2020**

- Created a clean web app, that made the front page of multiple popular subreddits, that gets data from IMDb about a television series and plots it using D3.js in a heatmap.

Casper - The Alexa Controlled Ouija Board **December 2019**

- Built a 3d printed spirit assistant that communicated by moving a planchette on an ouija board.
- Used a raspberry pi which converted speech to text and used the Alexa API to get responses back.
- Built using Python, Flask, Raspberry Pi, Alexa Voice Service API, and Google Speech to Text API.

Real-time Dangerous Object Detection System **June 2019**

- Trained a custom model for recognizing objects like scissors, baseball bats, knives, pistols, and people.
- Used YOLO (You only look once) v3 making it more than 1000x faster than R-CNN and 100x faster than Fast R-CNN.