

Henry E. Quinn IV

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Work Experience

Clarity Software Solutions

May 2019 - Present

DevOps Engineer

- Automating various deployment processes through the use of Docker containers and Bash scripts. This includes scripting a lot of git commands to prepare our daily build packages for production.
- Building custom tools with Bash and GoLang to automate daily build audit processes, saving approximately one man-hour per day. This mostly includes creating custom Go scripts that automatically look through various types of files for commonly made errors and reports the findings to our change control team.
- Completing code, shell script, and SQL migrations to our test and QA environments as needed throughout the day.

Administrative Office (AO) of the United States Courts

August 2018 - April 2019

Software Developer - Temporary Duty Assignment

- Transitioning the Judicial Dashboard to work on an on-premise OpenShift/GlusterFS solution, cutting our deployment time down by 99.17%. This involved converting a single server buildout to a Docker solution to allow multiple developers to work concurrently on their local machines followed by another conversion to Kubernetes to facilitate an efficient rollout to 34 courts in the next six months.
- Creating, maintaining, and providing enhancements to the codebase for a web application that automates the daily "getting up to speed" work for District Judges across the country, saving roughly an hour's worth of time per judge every morning.
- Collaborating with a remote team of engineers in D.C. to test the scalability of OpenShift for use by other judiciary development teams. A successful rollout will determine whether this resource will be elevated as a national resource.
- Communicating with the national IT Security Office to scan images and engineer solutions to remediate findings.
- Interfacing with District Judges and users in the pilot courts testing our Judicial Dashboard to better understand user needs.
- Coordinating with cross-functional stakeholders in the AO to align all teams in a common strategic direction.

United States District Court, District of Connecticut

March 2017 - April 2019

Programmer

- Transitioning in-house legacy applications to container based architectures with Docker for easier development and deployment. The ability to develop more quickly lead to a partnership with the Case Management Solutions Office in D.C., the hiring of part time developers, and a speedier rollout of our Judicial Dashboard product.
- Experimenting with modern web technologies like Vue.js, Node, and Webpack to lay the groundwork of modernizing the tech stack of our Judicial Dashboard project in order to better source talent for a nationwide rollout.
- Communicating with developers across the judiciary about emerging technologies that could overhaul the core applications used by districts across the country. That combined advocacy led to a container focused overhaul of our core product offerings and a judiciary-wide OpenShift hosting environment that the District of Connecticut is currently piloting.
- Implemented an iPad fleet and MachForm solution to shorten the process of gathering information from potential jurors, normalizing the data, and getting it into the hands of attorneys in high profile cases by 92.5%.
- Developing a touchscreen jury sign in kiosk to undercut the cost of Xerox's proposed product, to be used in courthouses nationwide, by ~85%.
- Coordinating with our Security Officer to keep various web servers patched and secure.

NewHaven.io (Non-Profit)

November 2018 - Present

Member Board of Directors

- Organizing events around the city for our members to network and learn new technology skills.
- Partnering with other technology and non-profit focused organizations to help connect and align groups and individuals.
- Creating a stronger tech and startup minded community by fostering a culture of creation and experimentation.

Public Projects

DEVC Webpack Playground (2018) - Experimenting folding Vue.js, Node, and WebPack into a containerized Lucee (open source ColdFusion) and MySQL environment that's used in the judiciary. The end goal is to spur a modernization effort of our tech stacks across the country. *Vue.js, ColdFusion, Shell, JavaScript, Docker, Node, Webpack, MySQL*. [GitHub](#).

SLAter (2018) - Programmed a Raspberry Pi to monitor my DeskPro queue and alert me via external speakers when I have a new ticket assigned to me. This workflow was also used to remind a coworker to drink water and cure his gout. *JavaScript, Node, MySQL, Raspberry Pi*. [GitHub](#).

US Webtranet (2017) - Built a containerized intranet framework for federal agencies. It was presented and used as a Docker technical demo in a nationwide video conference call to other judiciary developers in January of 2017. *Ruby, Rails, SQLite, Draft U.S. Web Design Standards, Docker*. [GitHub](#). [Docker Hub](#). [Live Demo](#).

Digital Signage (2017) - Developed a responsive digital signage system to let competitors in the 2017 National High School Mock Trials Championship know their various courtroom assignments across the Hartford courthouse when new rounds were posted. *JavaScript, Meteor, MongoDB*. [GitHub](#).

Education

Champlain College**
Bachelor of Science in Computer Networking and Information Security

- Specialization in Cyber Security
- Champlain College Climbing Club, Member

May 2015

Skills

Programming			Containers
Bash ColdFusion CSS/LESS	HTML JavaScript (Vue.js) Node	PHP Rails Ruby	Docker Kubernetes (Beginning) OpenShift
Data	Organization	Tools / Platforms	
IBM Informix MySQL	Atlassian JIRA Trello Boards	DB Visualizer GitBash / PowerShell	MobaXTerm Visual Studio Code

National Presentations

Judicial Dashboard - Dashboard View of Court Operations

August 2018

U.S. District Courts, IT Conference West - Phoenix, AZ

Judicial Dashboard - Dashboard View Of Court Operations

May 2018

U.S. District Courts, District Operational Practices Forum - Minneapolis, MN

US Webtranet - Containerized Intranet Framework

January 2017

U.S. District Courts, Collaborative Applications Development (CAD) Developer's Forum - WebEx

Human Resources Organizer (HRO) - Access Management

September 2016

U.S. District Courts, District Operational Practices Forum - Orlando, FL