

Lucas H. Henry

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Technical Skills

Languages: Go; Java; SQL; Bash |

Platforms: Linux; AWS; Heroku; K8s; Docker | **DBs:** PostgreSQL; MySQL; Redis |

Misc.: Git; GitLab CI; Ansible; Packer; RabbitMQ; Spring Framework; TCP/IP; gRPC; Ceph RGW

Professional Experience

DigitalOcean, LLC

8/2022 – present

Engineer II

Remote

- Spearheading the migration of Ceph RGW deployments from baremetal to Kubernetes
- Designed, implemented, and executed tooling to reconcile disparities between regional Ceph RGW instances and globally-distributed MySQL instances
- Led the expansion of App Platform into a new geographic region, and created playbooks for same
- Implemented YAML support in App Platform's public grpc-gateway API
- Technologies utilized: Go; K8s; MySQL; Temporal; grpc-gateway; Ceph

Datto, Inc.

10/2021 – 8/2022

Software Engineer II

Remote

- Designed and implemented a user-facing REST integration to gather and display security-related statistics
- Evangelized a DevOps culture of immutable builds, version tagging, one-click deploys, and automated testing
- Technologies utilized: PHP; MySQL; Go; GitLab CI/CD

Wolfjaw Studios

1/2021 – 10/2021

Associate Software Engineer

Troy, NY

- Reimplemented a legacy Go service resulting in an average speedup of 72% between all endpoints
- Mentored junior colleagues with RESTful API design; application architecture; AuthZ and AuthN; the CI/CD cycle; unit, integration, and e2e testing
- Technologies utilized: Go; Python; gRPC; Protocol Buffers; pprof; MySQL; Redis

Auto/Mate Dealership Systems

1/2019 – 12/2020

Software Engineer

Albany, NY

- Implemented cloud microservices for customer communication with third-parties
- Lead the testing and certification of a Kubernetes-deployed Spring Boot microservice built to transmit dealership data
- Spearheaded the creation of a Java library used by on-premises customer servers for communicating with EKS and RabbitMQ over Websockets using the STOMP wire format
- Updated legacy applications for integrating with the new cloud environment
- Technologies utilized: Java (Spring MVC, Boot, Security; Hibernate; JOOQ); IntelliJ IDEA; GitLab CI/CD; RabbitMQ; Kubernetes; AWS; RHEL; PostgreSQL; Protocol Buffers (Protobuf); Redis

GE Digital

6/2018 – 8/2018

Intern, Digital Technology Co-Op

Niskayuna, NY

- Created a directory of internal company websites by working with researchers, senior project managers and other stakeholders
- Member of globally-distributed development team creating a greenfield application for use by GE researchers and scientists. Worked closely with senior developers and product owners to assess the needs of stakeholders, the usability of the platform, and the implementation of digital solutions
- Technologies utilized: Java (Spring MVC, Boot; Hibernate); IntelliJ IDEA; Git; Bootstrap (CSS); PostgreSQL

Appenda, Inc.

9/2017 – 4/2018

Intern, Tools & Infrastructure Team

Troy, NY

- Automated virtual machine image creation and multi-platform environment provisioning for use in continuous deployment pipelines
- Augmented internal developer productivity tools with new features and tests, coordinating closely with core platform developers to develop solutions that simplified developer workflows
- Technologies utilized: Node.JS; Ansible; Packer; Azure; VMware; Git

NYS Office of Information Technology Services

6/2016 – 9/2017

Student Assistant

Albany, NY

- Utilized Splunk Enterprise for machine data analytics to drive business intelligence
- Implemented a custom Java application using IBM's FileNet API to securely move enterprise content off legacy storage
- Technologies utilized: Splunk; Java SE; Eclipse; Bash (scripting)

Congressman Paul D. Tonko

8/2014 – 2/2016

District Staff Assistant

Albany, NY

- Trained and supervised Albany office interns
- Directed incoming phone traffic and routed written correspondence
- Wrote letters to constituents and elected officials
- Assisted in scheduling, casework, and outreach

The White House

1/2014 – 6/2014

Intern

Washington, D.C.

- Intern in the Volunteers Department, Office of Presidential Correspondence
- Responsible for assisting and onboarding White House volunteers
- Coordinated the organizing and transmission of 8+ years of internal documents to the National Archives

Education

University at Albany

9/2010 – 6/2014 (B.A.); 1/2016 – 12/2019 (B.S.)

B.S. Computer Science and Applied Mathematics

Albany, NY

- **GPA:** 3.4
- **Coursework:** Data Structures and Algorithms; Programming at the Hardware-Software Interface; C Programming for Engineers; Data Processing Principles; Automata and Formal Languages

B.A. Political Science

Albany, NY

- **GPA:** 3.3
- **Coursework:** Comparative and International Politics; Political Theory; American Politics; International Organization; International Conflict and Security

Other Interests

- **Programming interests:** History of software; networking; programming language design
- **Hobbies:** Olympic weightlifting and powerlifting; fishing (fly and spin casting); cycling; clay pigeon-shooting
- **Community service:** Was a Boy Scout from ages 6 to 18; Eagle Scout awarded in 2010