

# Jeffrey Robert Hammel

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- Monitoring, testing, and deployment of complex systems
  - Linux, Python, Docker, AWS, Kubernetes
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## Software Engineer - Infrastructure

*October 2017 - present*

### LeapYear Technologies

- Development and operational support of Infrastructure as code for a differentially private analytics platform
  - Creation of a monitoring stack for real-time diagnosis of LeapYear software deployments
  - Development and curation of a Terraform and Ansible ecosystem for in-house deployments on AWS EMR
  - Development and maintenance of a CI/CD pipeline using CircleCI including the creation of custom Docker base images
  - Scalability and concurrency testing and analysis of results
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## Senior Fullstack Engineer

*April 2017 - October 2017*

### EY - Global Innovations

- Creation of an ETL process to synchronize a SQL datastore with a custom AWS data-storage platform via a REST interface using Node.js and PhantomJS
  - Integration of AWS and proprietary technologies in support of a data-storage platform for machine learning of corporate tax returns
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## Technical Lead

*September 2016 - February 2017*

### Cisco Systems

- Implemented Kubernetes deployment of a Concourse CI system for testing and deployment of an on-premise cloud provisioning system (Metal as a Service)
- Operation and extension of a SaltStack-managed control plane for the Infinite Video streaming provider platform
- Implementation of a monitoring system for Infinite Video services using Sensu and including the creation of a headless testing client
- Development of CDN containerized speedtest software for reporting to Elasticsearch

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## **Senior Software Engineer**

*January 2014 - June 2015*

### **Cognitive Networks**

- Authorship of a Python-driven headless client for monitoring and accuracy testing of a distributed video automatic content recognition system for Smart TVs
- Viewership information data pipeline testing. The scope of testing included unit, integration, and end to end tests
- Development of AWS provisioning of system components using Boto
- Analysis of test result data

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## **Software Engineer**

*March 2010 - December 2013*

### **Mozilla - Automation and Tools**

- Development and maintenance of automated harnesses for testing and quality assurance of the Firefox web browser
- Curation of Python ecosystem for test driver functionality
- Deployment to a multi-platform Buildbot continuous integration system

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## **Software Engineer**

*August 2006 - January 2010*

### **Openplans (formerly The Open Planning Project)**

- Development of community collaboration web platforms and tools
- Introduced Buildbot continuous integration system and build framework

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## **Graduate Student Researcher, Graduate Student Assistant**

*August 2001 - May 2006*

### **University of California at Berkeley - Electrical Engineering and Computer Science**

- Computational modeling of plasmas and comparison to experimental and theoretical results with a focus on DC discharges
- Conducted classes, prepared lecture material, and grading

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# Education

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## **Master of Science in Mechanical Engineering**

*June 2000 - May 2002*

### **Worcester Polytechnic Institute**

J. Hammel, K. Kovalev, N. A. Gatsonis, "Unstructured Adaptive Monte Carlo Simulations of Flows in Micronozzles", AIAA Paper 2001-2891, presented at the 35th AIAA Thermophysics Conference, Anaheim, CA, June, 2001.

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## **Bachelor of Science in Mechanical Engineering**

*August 1996 - May 2000*

### **Worcester Polytechnic Institute**