

# Franklin Diaz Resume

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## Currently Working on Security Infrastructure

### Recent Tools

Things I've been using lately.

- Github & GitLab
  - Markdown
  - Travis CI
  - CircleCI
- Python
- Puppet
  - Ruby (spec/rake testing)
- Ansible & Molecule
- Linux Shell Scripting
  - BASH
  - ZSH
- Vagrant, Docker, Terraform
- Digital Ocean, Google Cloud, AWS

### Experience

#### Salesforce

- Oct 2014 - Current
- Data Science & Network Forensics team
  - SecDevOps building security data platform & infrastructure
  - Large scale log aggregation
    - \* In-house solution
    - \* Funnel logs into SIEM via Kafka
  - Large scale packet capture
    - \* Designed and built Moloch based setup
  - Automate cluster buildouts
    - \* Splunk
    - \* Hadoop
    - \* Spark, Pyspark
  - Build & maintain Data Science Pipeline
    - \* Airflow, Tensorflow, Keras, etc.
  - CI/CD pipeline architecture design and implementation
    - \* Create and implement standards in build & test
    - \* Jenkins, BlueOcean, CloudBees, etc.
    - \* Docker, Puppet, Ansible/Molecule
  - Mentor junior infrastructure security engineers

#### Exact Target & Salesforce

- Jan 2014 - Oct 2014
- Create monitoring and administration tools in Linux environments.
- Facilitate deployment of custom cloud applications as a github site admin, chef admin, etc.

- Develop secure build/deployment processes.
- Train engineers & teams on various open source software and build/deployment processes.
- Port existing Windows C# web-based deployment tools to Linux/Python (Sledgehammer project).
- Support loading major releases to stacks every 6 weeks.
- ExactTarget was acquired by Salesforce in August of 2014

## **Indiana University**

- Aug 2012 – Dec 31st, 2013
- Principal Research Software Engineer
- Test Architect in Software Defined Networking Lab, designed test cases and direct test efforts on openflow networks.
- Wrote web based tools for GENI/GEMINI project.
- Assistant instructor for undergraduate networking (lead discussions, create and grade homework, and proctor exams).
- Research very high capacity storage solutions and high speed network connections.

## **Nokia Siemens Networks**

- April 2011 – July 2012
- Senior R&D Engineer

## **Motorola**

- Jan 1999 - April 2011
- CDMA Cellular base station product development.
- Motorola Networks division was acquired by Nokia Siemens

## **McHenry County College**

- August 2006 – June 2011
- Adjunct Faculty
- Taught information systems courses in the evenings

## **Education**

### **DePaul University, MS Network Security/Network Engineering**

- Studied network protocols, network design, focus mostly on lower 4 layers of OSI.
- About half Network Security and half Network Engineering courses.
- Program information

### **Northwestern University, MS Computer Info Systems**

- Agile, OO Methods.
- Relational Database specialization.
- Java programming, interactive web apps with Apache/Tomcat.
- Program information

### **Roosevelt University, BS Computer Science**

- C++ based curriculum.
- Minor mathematics.

## Code and Projects

- Administer The Hacker Cookbook just for fun
- Cyber Shield 2018 - Trainer - (Infrastructure) Blue Team Tools & Tehcniques
  - Here is a link to the event
- Electronic badges, for example, the bat badge
  - Here are some pictures of it
- I run @indybsides security conference
  - Here are some pictures of it