

DAVID G. DANIEL

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95079 Barnwell Road,
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OBJECTIVE

Passionate Software Engineer with 14+ years of experience in web application design and development.

HIGHLIGHTS

- Developed full-stack web applications with NodeJS (Express, VueJS and EmberJS) and Python (Django) web, leveraging
- Architected, developed, and maintained AWS and On-Prem infrastructure with Terraform and Ansible
- Fluent in Python, Node, Java and C++
- Certification: Security+ and Cloudera Hadoop
- Developed high availability systems with global coverage on Amazon Web Services
- Performed performance analysis and optimized web and embedded applications.
- Strong leadership and project management skills, with practical experience in Agile Methodology

ACCOMPLISHMENTS

- CompTIA Security+ Certified (November 2018)
- Cloudera Certified Developer for Apache Hadoop (CDH Version: 5 on April 24, 2015)
- Architected and Engineered a secure token-based authentication layer on top of MongoDB for query-based redaction of sensitive data.

PROFESSIONAL EXPERIENCE

DevOps Engineer

mCloud – Columbia, MD

January 2021 to Current

- Designed and Developed a multi-environment setup (dev, staging and prod) with Kubernetes with Continuous Deployment to each environment. The application that was deployed was a Python application that required S3 to be available as a mounted volume in the Pod. This was accomplished by using S3Fuse and having it mounted in the running pod as a mounted volume.
- Setup Continuous Integration and Deployment with Gitlab Custom Runners that ran on a separate node within the network and pinged back to Gitlab.com. Runners ran tests and security checks on the application code that was being checked in. Runners also performed daily backup of repositories to a separate S3 bucket for redundancy.

Senior Software Engineer

CASE Management - Springfield, VA

October 2019 to Current

- Migrated a core application for the government agency that was built on ColdFusion to a Python and Django application that leverages a dynamic user interface with modern Javascript setup with VueJS. The application was built with test driven development methodologies that verify the functionality setup in the ColdFusion application. This ensured that the final application had the same functionality as the original application.
- Migrated the legacy application's MySQL database scheme to support Foreign Key relationships and be incorporated with Django migrations to ensure that the codebase is properly managed and migrated as the project evolved.
- Developed the deployment strategy with CI/CD pipelines with Gitlab CI to build the application code, test the features, and deploy the application code to the appropriate environment based on the Git branch that the codebase was built off of. The application was built and deployed to IBM's Pivotal Cloud Foundry.
- Provided Python and Django application maintenance and support for other Python applications supported by the government agency team.
- Planning and Architecting the company's email, contacts, calendar and files management from G-Suite Workspace, provided by Google, to Microsoft 365 to be more compliant with CMMC L3 certified.

Senior DevOps Engineer

TekSystems - Fort Meade, MD

November 2018 to October 2019

- Architected a custom solution for the entire project for a codable, buildable and a deployable infrastructure as a Service (IaaS) solution with Ansible roles and playbooks. Successfully deployed IaaS code on unclassified and classified environments.
- Create and maintain fully automated CI/CD pipelines for code deployment using Bamboo
- Debugged production issues on both unclassified and classified environments by analyzing code and developing short-term and long-term solutions from the analysis.
- Managed SSL Certificates and Java Keystore and Truststore

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Senior Software Engineer

Boeing Intelligence and Analytics - Annapolis Junction, MD

June 2016 to November 2018

- Independently engineered a solution that addressed a crucial problem bringing latest public repositories for different languages to the DoD's secure network. The solution performs daily mirrors of public repositories (PyPi, CRAN, Eclipse, etc.), splits the repositories into smaller artifacts that can be processed based on business rules, performs virus scan on the artifacts, and sends the artifacts to high-side, while monitoring the state of transfer.
- Engineered a solution for providing 1st party and 3rd party Eclipse Plugins for users on DoD's secure network by reverse engineering how Eclipse resolves packages from <http://marketplace.eclipse.org>.
- Designed and deployed ChefDK cookbooks for provisioning and deploying web applications like Gitlab, and Redmine to thousands of users.

Senior Software Engineer

CSC/CSRA - Columbia, MD

November 2014 to June, 2016

- Cloudera Certified Developer for Apache Hadoop (CDH Version: 5 on April 24, 2015)
- Engineered and maintained various services of the EzBake Platform, which is a highly available and secure enterprise PaaS solution for the DoDIIS community that was developed on top of OpenShift, with Java, Python and Ruby.
- Architected and developed a secure proxy layer on top of MongoDB that monitored queries for redaction of sensitive data based on the user, and inserting data based classification levels.
- Analyzed and engineered a scalability algorithm for Red Hat's OpenShift that round-robbined across multiple availability regions, and deployed nodes that required scalability across these multiple regions.
- Developed pipelines with Apache Storm and Kafka for real-time data analytics.

Software Engineer

July 2013 to November, 2014

Dealertrack Inc., - New Hyde Park, NY

- Engineering various RESTful resources in Django to accept data from partners to import customer information from different Dealer Management Systems, and use it to create Credit Applications. The resources were transactional in nature, and ensured data integrity, with the ability to rollback if transaction failed. Developed applications with MongoDB, Redis and relational databases like IBM DB2 to deliver high availability application and services.
- Reviewing and guiding developers as build master to ensure only optimal and non-defective code was moved to production.
- Refactored and optimized production code by profiling for bottlenecks and introducing memory caching and other methodologies to increase performance.

Research Assistant

August 2012 to May 2013

NOAA CREST – New York City, NY

- Assessed performance of the NCAR Rapid Refresh Model to predict boundary layer properties.
- Developed a methodology for automating MODTRAN simulations with radiosonde data via MATLAB. This would later be used to train a neural network for predicting temperature under cloud cover.

Software Engineer

October 2011 to November 2012

Siteworx Inc., - New York City, NY

- Architected and implemented a custom CMS architecture in Adobe CQ for the United Nations. The solution provided a high performance EC2 configuration with RAID-0 EBS Volumes.
- Setup EC2 to provide high-availability architecture with servers that ran on multiple regions around the world.

EDUCATION

M.E.: Electrical Engineering, 2013

The City College of New York (CUNY) – New York City, NY, USA

Relevant Coursework: Satellite Image Processing; Remote Sensing and Surveillance (EO/IR); Optical Remote Sensing; Project Management; Photonics Engineering; Digital Signal Processing; Physics 1 and 2;

B.E.: Computer Engineering, 2010

The City College of New York (CUNY) – New York City, NY, USA