

# David Edward Bunn

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## Site Reliability Engineer / DevOps / Web and Internal Application Developer

### Profile

A veteran IT professional (20+ yrs), with excellent technical troubleshooting skills and robust experience installing and supporting Windows (17 yrs) and Linux (9 yrs) based servers, desktops and their applications in enterprise (200+ server) environments. Strong application development skills (6+ yrs) allow for agile and versatile solutions to customer needs, helping to provide a career history of exceptional customer satisfaction. A dependable and valuable team member, with proven system documentation abilities (runbooks, application workflow diagrams – 10+ yrs), and team leadership skills (3 yrs).

### Technological Skill Set

- High level of experience configuring and installing applications on Windows (17 yrs) and Linux (9 yrs) operating systems, in enterprise level (200+) VMWare environments, as well as in AWS + Docker (4 yrs), and EKS (3 yrs)
- Skilled with administering IBM WebSphere (6 yrs), Connections (6 yrs), IIS (6 yrs), Elasticsearch (2 yrs)
- Proficient with many programming languages, including LotusScript (OOP – 6 yrs), HTML + CSS + JavaScript (5 yrs), Shell Scripting (7 yrs), Ruby/Chef (3 yrs), Visual Basic .NET (2 yrs), Python (2 yrs), Golang (1 yr)
- Expertise using, configuring, developing, administering, and troubleshooting Lotus Domino (15 yrs)
- Experienced with setting up and maintaining web, mail, pager, and internet gateways (10 yrs)
- Comprehensive PC hardware experience, including building and repairing complete systems
- Versed in Microsoft Office, Adobe Photoshop / Lightroom, VMWare Workstation / Oracle Virtualbox
- Familiar programming in C++, µC++ (concurrent C++), Assembler, PHP, Perl from personal projects

### Work Experience

#### Site Reliability Engineer – Prodigy Education (Remote / Toronto, ON)

Jul 22 – Present

- Responsible for supporting numerous Amazon EKS (Kubernetes) cloud based applications, deployed via Flux / ArgoCD across multiple availability zones
- Projects included deploying Atlantis for automated Terraform deployments, migrating from Flux (v1) to ArgoCD, implementing Argo Rollouts, moving from AWS EKS on-demand nodes to Karpenter controlled spot nodes, coding new features for the in-house Golang Kubernetes CLI tool, and cleaning up old S3 log buckets
- Provided on-call support for production environments, including supporting multiple development teams
- Technologies: AWS, Docker / Kubernetes, Terraform, Helm, ArgoCD, Atlantis, Datadog, Karpenter, Flux, Golang

#### Site Reliability Engineer – Paytm Labs (Remote / Toronto, ON)

Oct 20 – May 22

- Customized and deployed numerous Docker container based application stacks to Amazon EKS (Kubernetes), leveraging kustomize, Helm, and ArgoCD software tools to streamline the deployment process
- Projects included upgrading the AWS EKS server and worker EC2 versions, deploying Prometheus / Alertmanager / Thanos monitoring clusters, setting up vertical pod autoscalers, implementing Selenium Grid v4 application browser testing, adding canary and blue/green deployment capabilities via Argo Rollouts, improving on-call quality of life / alert severities, and moving from EC2 based Cassandra clusters to Kubernetes based K8ssandra-operator ones.
- Participated in the on-call rotation, supporting the production environments, and responding to application developer questions and issues after business hours
- Technologies: AWS, Docker / Kubernetes, Terraform, ArgoCD, Atlantis, Helm, Kustomize, Flux, Nginx, Ansible, Prometheus, Cassandra, Kafka, Redis, Elasticsearch, Jsonnet

**TechOps Engineer – Stripe (Remote)****Dec 19 – Jul 20**

- Led the Cross Border Payouts initiative to test, and add payouts functionality to several new countries in Stripe's payment network, extended the existing Ruby code base
- Was responsible for sending, verifying, troubleshooting and repairing test failures to test payout accounts
- Mentored two new teammates, helping with Ruby coding, and testing / verification procedures
- Other work involved resolving various electronic account ledgers, adding programmatic account transfers, and working with new banking partners to integrate with their web services
- Technologies: Ruby, VSCode, AWS, Terraform, Splunk, many Stripe custom internal systems and tools

**Senior Tech Ops Engineer – Paymentus (Richmond Hill, ON)****Feb 17 – Nov 19**

- Designed and architected a 25+ CentOS 7.6 server infrastructure in Amazon Web Services, running NodeJS micro service Docker containers, Tomcat, Nginx and Oracle servers secured behind a Check Point vSEC virtual firewall. System state orchestration was performed via SaltStack, with log aggregation in ELK
- Built a five server Elasticsearch / Kibana (6.3.2) and Fluent production cluster in Docker / AWS for managing / searching / alarming, handling billions of log entries received from all production applications. A subsequent project involved designing, building and migrating to a new six server Elasticsearch cluster on 7.3.1
- Migrated the Atlassian Bitbucket, Confluence, Crowd and JIRA servers in to Docker containers in AWS, and implemented ongoing monitoring via a separate Telegraf, Influx and Grafana Docker stack
- Technologies: CentOS 7.6, Docker, Check Point, Nginx, Couchbase, Tomcat, SaltStack, Docker, AWS, shell scripting, Python, Elasticsearch, Logstash, Kibana (ELK), Fluentd, Cloudflare, Terraform

**Senior Technical Analyst – Ontario Teachers' Pension Plan (North York, ON)****Feb 07 – Feb 17**

- Led a three person team of intermediate to senior administrators managing 30+ IBM Domino based web, application and mail servers. Provided near perfect up-times for key business applications
- Documented and trained team members on the building and administration of Linux based Jive, Day CQ5 / AEM, SAS Analytics and Axiomatics (ABAC) applications
- Leveraged VMWare virtual servers / desktops to build, configure and test new applications, via a Chef / Docker / Bamboo automated deployment pipeline, allowing for rapid turnaround times
- Provided rotating 7 / 24 on call support for key business systems and applications, including high profile public facing websites
- Responsible for the building, management, and deployment of applications to Windows based WebSphere, Connections, Portal, and Microsoft IIS systems
- Developed scripts and applications to streamline administrative efforts, enforce consistency across clusters and to report on any user related security incidents, saving countless hours of manual labour
- Technologies: WebSphere, Windows, Linux, IIS, Tomcat, Apache, Domino, nginx, VMWare, Ruby, Chef, Docker, Domino, SAS, Adobe Experience Manager, shell scripting, Dynatrace

**Education****BMATH – General Mathematics – University of Waterloo (Waterloo, ON)****1999**

- Areas of study: Computer Science, Algorithms, Chemistry, Psychology, Astronomy

**Activities and Hobbies**

- Completed an online stock market game (Stockfighter.io) via a REST based API in Ruby (2016)
- Arts: guitar and piano playing, digital photography, amateur music theatre, cinema enthusiast
- Sports: baseball (hardball/softball), bowling, dodgeball, golf, sailing, squash, tennis, ultimate frisbee
- Technical: personal web design / programming, building PC and private networks, network computer games, automotive repair, following latest technology trends, experimenting with open source software
- Volunteer: prop and set building for amateur music theatre