



DEVOPS & FULLSTACK

DYLAN CASTOR

dylanc.code@gmail.com

(+33) 6 50 32 29 56



LANGUAGES & SCRIPTING

- Bash/Shell
- Python
- Go
- JavaScript (Node.js)
- Ruby



TOOLS & PLATFORMS

CI/CD

- Jenkins
- GitLab CI
- GitHub Actions
- Travis CI



Containers & Orchestration

- Docker
- Kubernetes
- Docker Compose



Cloud Platforms

- AWS (EC2, S3, RDS, Lambda)
- Google Cloud Platform (GCP)
- Microsoft Azure



Monitoring & Logging

- Prometheus
- Grafana



Config Management (IaC)

- Ansible
- Terraform
- Chef
- Puppet



EXPERIENCES

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December 2022 – now

- **Node.js Back-end development**
 - Developed a scalable backend API using Node.js with MySQL for relational data storage, integrating CouchDB for document-based data and Redis for caching.
 - Implemented real-time communication using WebSockets, enabling seamless interaction between clients and the server.
 - Integrated MQTT protocol to manage IoT device communication.
- **Svelte Front-end development**
 - Creating reusable UI components.
 - Optimizing the application for various devices and screen sizes using responsive design.
 - Implementing lazy loading and code splitting to improve initial page load times.
- **Server Management**
 - Managed Kubernetes clusters for orchestrating containerized applications, automating deployment, scaling, and monitoring across multiple environments.
 - Utilized Terraform for Infrastructure as Code (IaC), automating the provisioning and management of cloud infrastructure, including networks, storage, and compute resources.
 - Deployed and monitored microservices in a Kubernetes cluster, ensuring high availability and scalability, with automated updates and rollback mechanisms.
 - Implemented regular automated data backups to Azure Blob Storage, ensuring secure and reliable disaster recovery for critical databases and application data.

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Freelance | June 2023 – January 2024

- **React Front-end Development**
 - Developed efficient and reusable UI components with React.
- **Python Backend Development**
 - Developed and maintained a Django REST API in Python, ensuring seamless communication with a PostgreSQL database for data storage.
 - Optimized PostgreSQL database performance, implementing indexing and query optimization.

Version Control & Collaboration

- Git
- GitHub
- GitLab
- BitBucket



DATABASES & STORAGE

SQL

- MySQL
- PostgreSQL
- SQLServer



NoSQL

- MongoDB
- CouchDB
- Redis



Storage Solutions

- S3 (AWS)
- Google Cloud Storage
- Azure Blob Storage



ENVIRONMENTS & AUTOMATION

Operating Systems

- Linux (Ubuntu, CentOS)
- Windows Server
- MacOS



Automation & Scripting

- Bash/Shell Scripting
- Python Scripting
- PowerShell



Security & Networking

- Nginx
- Apache
- HAProxy
- Traefik



EXPERIENCES

• Python Backend Development

- Integrated both Stripe and PayPal payment gateways, handling payment workflows including subscriptions, refunds, and webhook processing for real-time payment notifications.

• DevOps & Cloud Infrastructure

- Implemented CI/CD pipelines in Bitbucket using custom scripts to automate testing, building, and deployment of applications to AWS EC2 instances.
- Managed cloud infrastructure on AWS, including EC2, S3, and RDS, automating provisioning and scaling using Terraform.
- Implemented TLS/SSL certificates via AWS Certificate Manager, securing application endpoints with HTTPS and automating certificate renewal for continuous security.

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Ecom Wisdom Media | August 2021 - October 2022

• Node.js Backend Development

- Built scalable RESTful APIs with Express.js connected to a PostgreSQL database, ensuring secure data management and optimized queries.
- Integrated Stripe for seamless payment processing, including subscriptions and webhook management for real-time transaction updates.
- Optimized database performance in PostgreSQL with indexing and query tuning to support high-traffic operations.

• React Front-end Development

- Built scalable and SEO-friendly web applications using Next.js, optimizing both server-side rendering (SSR) and static site generation (SSG).
- Enhanced state management with Redux, improving data flow and overall application performance in complex user interfaces.

• DevOps & Cloud Infrastructure

- Implemented automated CI/CD pipelines using GitHub Actions, enabling automated testing, building, and deployment across development, staging, and production environments.
- Managed cloud infrastructure using AWS EC2, Elastic Load Balancer, and RDS PostgreSQL, ensuring high availability and scalability.
- Automated infrastructure provisioning using Terraform, enabling reproducible and versioned AWS environments.
- Containerized Node.js and React applications using Docker, ensuring consistency across development and production environments.
- Managed secrets and secure credentials using AWS Secrets Manager and implemented SSL certificates with AWS Certificate Manager for secure communications.