

# Andrew Freeman

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## Relevant Experience

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### SOFTWARE DEVELOPER – CBS. INC.

MAY 2021 – OCT 2023

- Developed an end-to-end image processing pipeline for the engineering and research team using **Python, OpenCV, PyTorch, Apache Kafka, GRPC, Express.js** and **InfluxDB** for the backend, and **WebSockets, Next.js, React, and Highcharts** for the frontend; **processed over 150000 images per day**, reduced payload and storage size by 25%, **latency by 300%**, and **operational cost by 1400%**.
- Spearheaded the redesign of 3 products in the proprietary @Assist suite, overseeing project management, sprint planning, and software architecture; contributed to a **120% increase in customer base within 8 months**.
- Led the redesign of the corporate website infrastructure using **Next.js, GraphQL, Strapi**, and **Elasticsearch**, dynamically generating and allowing search for thousands of unique pages and terms; reduced average site load times by ~5 seconds.
- Developed and implemented the primary DevOps pipeline for building, verifying, and automatically staging and deploying company software, utilizing Docker, Kubernetes, ArgoCD, and Jenkins; fully automated deployment pipeline for more than a dozen applications and **reduced deployment time by ~85%**.
- Managed multi-region server and database configuration using **Ansible, Terraform, AWS (S3, EC2, EKS)**, and **DigitalOcean** across 4 regions; streamlined the configuration process, reducing setup and onboarding time for new developers and software from hours to minutes.

### MANAGER – MCDONALD'S CANADA

OCT. 2015 – MAY 2021

- Development of a 9-month plan to increase speed, reducing wait times by 35% where implemented.
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## Technical Projects & Skills

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### PROGRAMMING LANGUAGES, SOFTWARE & FRAMEWORKS

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|---------------------------|----------------------------|----------------------|
| • TypeScript, Python      | • MongoDB, Cassandra       | • Docker, Kubernetes |
| • Go, Java                | • TimescaleDB, InfluxDB    | • RESTful APIs       |
| • React.js, Next.js       | • Terraform, Ansible       | • gRPC, GraphQL      |
| • PyTorch, OpenCV         | • Jenkins, ArgoCD          | • Apache Kafka       |
| • AWS, GCP, Digital Ocean | • Git, Perforce, Linux     | • Apache Flink       |
| • MySQL, PostgreSQL       | • Smartsheet, C4 Modelling | • Jira, Confluence   |

### “SNAPPY” HOMELAB

- An ongoing project hosting over 15 internet services for friends and family.
  - Serves as personal backup and storage, part of my 3-2-1 backup strategy.
  - Utilized as a proxy and VPN server for experimentation and learning purposes.
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## Education

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### THE KING'S UNIVERSITY

SEPT. 2017 – MAY 2022

*Computing Science, BSc Co-op, Minor in Business Administration*

Alberta, Canada

- GPA 3.82/4.0 – With Distinction
- Key classes: OS, Databases, Networking, Image Processing, Software Engineering, Numerical Analysis