Johan Cornelissen

j.cornelissen@queensu.ca • github.com/johan1252 • linkedin.com/in/johan-cornelissen

Professional Summary

- Hands-on experience implementing cloud native solutions using various AWS Services including EC2, VPC, S3, EFS, Lambda, CloudFormation, OpsWorks, RDS, DynamoDB, Billing, ECS, EKS, ECR, etc.
- Hands-on experience architecting and securing AWS infrastructure using IAM, KMS, CloudTrail, CloudWatch, Trusted Advisor, Guardduty, Security Groups, Secrets Manager etc.
- Extensive experience in the software life-cycle including development, documentation and testing.
- Strong organizational and communication skills developed through leadership opportunities in academic, and workplace settings.
- Experience solving open-ended engineering design problems and communicating concise solutions using formal reports and presentations.

Technical Skills

- **AWS Services:** EC2, VPC (Internet/Nat Gateways, Route Tables, etc.), Billing, RDS (Oracle, Aurora Postgres), Cloudwatch, Lambda, SQS, SNS, ECS, EKS, ECR, DynamoDB, Elasticache, Cloudformation, Cloudtrail, Opsworks, Trusted Advisor, API gateway, Privatelink, Cloudfront, Route53, IAM, Guardduty, Certificate Manager, KMS, Secrets Manager, S3, EFS, AWS Backup.
- **Programming/Query Languages:** Python, Ruby, Perl, Bash, Java, SQL
- **Configuration Management:** Chef, Ansible
- **Source Code Management:** Github, BitBucket, Clearcase
- **Databases:** Oracle, Aurora Postgres, DynamoDB
- **DevOps Tools:** Jenkins, Docker, Jira, Confluence, Splunk, Sonarqube (static analysis), Blackduck (dependency scanner), Nexus (artifact repository), Pagerduty, Gradle, Maven.

Education

Bachelor of Applied Science in Computer Engineering   Sept 2013 – April 2018

Queen's University, Kingston, Ontario

- Dean's Honour List, Excellence Entrance Scholarship, Donovan Brown Scholarship in Applied Science

Experience

Continuous Integration Developer   June 2018 – Present

Trend Micro, Ottawa, Ontario

- Design, develop and maintain industry standard CI/CD infrastructure through the use of Jenkins, GitHub, Docker, AWS, Azure, and Atlassian collaboration tools.
- Provide operational support for Trend Micro's Deep Security as a Service (DSaaS) through the use of various AWS infrastructure (OpsWorks, EC2, RDS, Lambda) and monitoring tools.
- Advocate for an increase in DevOp's culture and practices in all aspects of the software lifecycle.

Software Engineering Intern   May 2016 – Sept 2017

Ciena Corporation, Ottawa, Ontario

- Contributed to the software cycle of a feature implemented on a real-time system to visually display hardware LED status in a customer visible user interface.
- Significant experience debugging user space software errors on Windriver VxWorks, and Linux OneOs with the use of GDB and LTTng tracing.
- Analyzed product performance issues by using memory and real-time monitoring tools to identify software deficiencies. Leveraged open source analytics platforms such as Elasticsearch and Grafana to easily identify the impact of LTTng tracing on a real-time system.

- Increased efficiency of feature integration and regression testing by developing a generic automated test suite in TCL. Tests are now created and executed dynamically based on data queried from the product's evolving data model.

Project Manager   August 2017 – Present

Queen's University, Kingston, Ontario
- Advisor and resource for three student design teams working on a community-based project as part of their first-year engineering design course.

Teaching Assistant   Fall 2015, Fall 2017

Queen's University, Kingston, Ontario
- Assisting second year engineering students in ELEC 271 Digital Systems with laboratory experiments using the Altera Nios II processor and VHDL.

Extracurriculars and Projects

CSGames Social Computing Competition   Spring 2017
- Participated in AI (Python), Relay Programming (Python, Java), Web Development (PHP, HTML), and Debugging (10 languages) competitions at ETS in Montreal.

Photography Team Manager   Sept 2015 – April 2016
- Managed a team of 6 photographers as part of the Engineering Society's communications team.

QBnB   Spring 2016
- Designed an HTML/PHP based web application with a MySQL database for short-term housing rental.

Arduino Autonomous Robot Competition   Spring 2015
- Designed and programed an Arduino powered robot to autonomously play a game of basketball.

Clark Hall Pub iOS Loyalty Rewards Application   Spring 2014
- Developed a basic iOS application for a Queen's on-campus pub to allow loyal customers to claim rewards.