

John Santias

DevOps Engineer

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Qualifications

2022 AWS Certified Developer Associate
2021 AWS Certified Cloud Practitioner
2019 Bachelor of Information Technology
Major in Computer Science
Minor in Network Security
Queensland University of Technology

Awards

2019 Tanda Hackathon Best Technical Project
2018 Clipchamp Hackathon - Honorable Mention
2018 Golden Key International Honour Society
2014 Aquinas College Diligence Award for IT

Industry Experience

DevOps Engineer @ April9 Digital Consulting [Full-Time]

October 2020 - Now

Responsibilities:

- Review environments for any existing and potential deployment issues. If issues exist, I collaborate and liaise with the developers and project managers to form action plans to resolve these.
- Routinely perform cloud infrastructure development and further automate the delivery of services and projects to clients.
- Facilitate and oversee code release for deployments on a CI/CD basis.
- Perform regular monitoring tasks to align the company with ISO27001 policies
- Facilitate change management process by reviewing software changes, documentation, and acquiring approval from the client to deliver to production systems
- Provide 24/7 customer support to client's services

Projects:

- Improved infrastructure security by locking down networking routes, ports, and replacing IAM users with IAM roles.
- Reduced the monthly costs of running AWS infrastructure by 40% by switching services to use to spot instances, migrating apps to serverless solutions, and implementing automatic shutdowns for non-production environments.
- Designed and implemented a CI/CD release strategy for the company to simplify the delivery of features from non-production to production
- Integrated Github Actions with Octopus Deploy to speed up the build time and delivery of new features
- Reduced the delivery of software through a CI/CD pipeline from 1 hour to 15 minutes for Eagers Automotive's machine learning team using Azure DevOps
- Set up monitoring and alerts on all client and company applications using Grafana and PagerDuty
- Applied the AWS Well-Architected Framework best practices to BCM Group's AWS account:
 - Created AWS Organisations integrated with Azure AD to enable better governance across accounts.
 - Enabled and monitored AWS Security services and centralised findings into an audit account
 - Decommission unused resources to reduce spending and ease governance
- Led and managed April9's business partnership with AWS
- Contributed to the company's ISO27001 certification by implementing security policies and applying them throughout business processes

Software Engineer @ Infosys [Full-Time]

February 2020 - October 2020

- Automated the comparison and validation of data migration from legacy databases to MongoDB using scripts developed using Bash and Node.js
- Developed a Node.js program to generate mock test data based on a data mapping spreadsheet. Allowing teams to use the data to test their scripts in a development environment before promoting them to production
- Designed and implemented a REST API with Express.js to deliver generated test data

Software Engineer @ Weko Health [Contract]**December 2019 - January 2020**

- Delivered an MVP for a student start-up to assist surgical clinics to assess injured patients
- Implemented authentication to web portals using PassportJS
- Technologies include Vue.js, Node.js, Express.js, Docker, and NGINX hosted on AWS EC2, and S3

DevOps Engineer @ TechConnect [Internship]**April 2019 - September 2019**

- Developed SaaS applications for clients using AngularJS, Node.js, Express.js, and utilised AWS services S3, RDS, API gateway, and AWS Lambda functions
- Migrated client software from on-premise to AWS with a focus on serverless architecture

Software Engineer @ QUT [Contract]**December 2019 - January 2020**

- The project was funded by QUT to develop pharmaotchi, a game to empower nursing students to self-assess their medical calculations in a safe environment, and to relate abstract maths with real-world care.
- Designed and implemented the REST API endpoints and game logic to authenticate users and synchronise game progress with the front-end
- Performed CRUD operations with a PostgreSQL DB using promise-based Sequelize Node.js ORM
- Delivered text notifications through Clicksend's API

Co-founder @ NestedOS [Self-Employed]**July 2018 - June 2019**

- Developed the product to serve virtual machines through a web browser using VNC, RDP, and SSH protocols
- Combined TurboVNC and noVNC to serve machines through HTTP
- Dockerised the application and deployed it on an AWS EC2 instance
- Maintained the network architecture and security of the virtual machines

Student Software Engineer @ CSIRO [Apprenticeship].**July 2018 - May 2019**

- Lead a team of undergraduate software engineers to develop a data analysis system
- System was based on Elasticsearch and included complex search functionality for researchers to find relevant data for their disease studies

Side Projects

Co-Founder & Vice-President @ QUT White Hats**December 2018 - November 2019**

- Co-Founded a cybersecurity club to bring more interest and expand the university curriculum
- Delivered talks based on networking fundamentals, Kali Pen-testing tools, and Reverse engineering APIs
- Developed CTF challenges for members from web applications and cryptography to forensics
- Connected industry professionals to university students through club events

General Committee @ QUT Code Network**October 2019 - December 2020**

- Mentored and advised IT students on their journey through uni and career
- Assisted the club in the execution of events and the development of the club
- Opened communications between the club, students, and industry professionals

General Committee @ QUT Starters**November 2018 - November 2019**

- Assisted the club in the execution of events and the development of the club
- Guided student participants through their startup journey to transform their idea into reality
- Contributed to the development and execution of the annual Disrupting Law Hackathon in association the QUT White Hats club