

# SHAH H. SOLEHRIA

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## Education

### British Columbia Institute of Technology (BCIT)

❖ Bachelor of Business Administration	Degree	Jun 2018-Dec 2020
❖ Business IT Management	Diploma	Sept 2016-May 2018

## Notable Academia

### Udemy

❖ Complete Machine Learning & Data Science Bootcamp 2023	30% completed.
❖ <a href="#">Decoding DevOps with Projects</a>	Aug 2023
❖ <a href="#">AZ-303 Azure Architecture Technologies</a>	Dec 2021
❖ <a href="#">AZ-104 Microsoft Azure Administrator</a>	Aug 2021
❖ <a href="#">AWS Certified Solutions Architect Associate</a>	Aug 2021

## Work Experience

### Kops Kubernetes Cluster in AWS ----- 2023

// <https://kubernetes.shahdevelopment.tech/>

- ❖ Transformed static site into a CI/CD microservices Kubernetes (K8s) deployment in AWS.
- ❖ Setup Kops K8s prerequisites: DNS, AWS S3, & installed necessary software.
- ❖ Defined K8s definition files: endpoints, secrets, services, & Nginx Ingress Controller (with SSL)
- ❖ Developed parameterized Jenkins pipeline (groovy): polling of SCCM (build trigger), code pull, build, test, code analysis (SonarQube), image archive, & deploy.
- ❖ Integrated Helm into the Jenkins pipeline for deployment of app to K8s.
- ❖ Deployed site to the web with a Nginx Ingress Controller Deployment definition, DNS, & wildcard SSL.

### Docker Swarm Cluster in AWS EC2 ----- 2023

// <https://shahdevelopment.tech/>

- ❖ Transformed static site to microservices Docker Swarm Cluster in AWS.
- ❖ Defined front-end, back-end, & Nginx; Built specific images for each with Dockerfile & NPM.  
- Compiled them into docker stack file/docker compose file.
- ❖ Used environment variables to secure code in SCCM.
- ❖ Fully automated the build deploy to AWS EC2 with bash & locally with batch scripts.
- ❖ Deployed app to WWW with GoDaddy DNS, SSL Cert, & Nginx Reverse Proxy with ACL's.

### Python FASTAPI Application on Heroku ----- 2023

// <https://fastapi-shah.herokuapp.com/>

- ❖ Redefined existing understanding of Python: designed authenticated (OAuth2) social-media backend API on AWS.
- ❖ Validated & parameterized i/o for path operations achieving desired data states in PostgreSQL.
- ❖ Secured code in GitHub using variables & online with access-controlled Nginx Reverse Proxy.
- ❖ Defined front-end, back-end, & Nginx with Docker Compose: services & API calls to test i/o.
- ❖ Alembic used for Postgres DB deploy.
- ❖ Postman for test, authentication, & environment variables.

### JavaScript Web Application in AWS EC2 ----- 2022-2023

// <https://shahdevelopment.tech/> & <https://kubernetes.shahdevelopment.tech/>

- ❖ Coded basic HTML & CSS static site.
- ❖ Progressively, added features to existing code while also adding JS code to enable further effects.
- ❖ Took advantage of free API's or libraries for Node.JS like: Google Maps, P5.js, NeDB, & ChatGPT to build tools & features for the site.
- ❖ Maintained code in a GitHub repository & implemented best of practice version control habits.
- ❖ Integrated HTML, CSS, JS, & state of the art Nginx Reverse Proxy.

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**Sr. Network Administrator** ----- Electrameccanica (Burnaby, BC) ----- *Dec 2022 – Feb 2023*

// Closure of all Canadian offices; Company presence and staff were dissolved.

- ❖ Engineered windows migrations by: preparing landing zone infrastructure (Azure), configuring Hyper-V disks with PowerShell, handled Windows Server DNS, performed dependency analysis with Azure migrate, performed failover testing, & secured the entire process with Veeam backups.
- ❖ Quickly learned physical setup, CLI configuration, & console management of Fortinet FortiGate firewalls, & designed a plan for SDWAN built on top of existing ADVPN Dynamic VPN tunneling.
- ❖ Assumed responsibility over Linux based Zscaler application including updating, patching, & troubleshooting issues (successfully resolved a site wide outage).

**System Administrator** ----- CaseIQ or i-Sight (Remote) ----- *July 2022–Nov 2022*

- ❖ Successfully revived & rebuilt many failed VMWARE datacenters containing Yellowfin BI Servers & the i-Sight SAAS application servers & databases.
- ❖ Excelled with Java servers, went from knowing nothing to the in-house expert in less then four months!
- ❖ Managed/fixed/automated many aspects of DevOps environment: Jenkins, Ansible, Jenkins, build failures, & scripting. Went from know nothing about builds to one of the leading experts for developer issue escalations!
- ❖ Deployed & maintained i-Sight Linux OS JavaScript application on Azure, AWS, & VMWARE.
- ❖ Successfully worked with: Teleport, Kubernetes, OpenShift, NodeJS, NPM, Quartz, RabbitMQ, Redis, Nginx, Elasticsearch, Samba, Docker Swarm, make, SQL, JSON, XML, JAVA, ODBC, & Docker Compose.

**Jr. System Administrator** ----- CaseIQ or i-Sight (Remote) ----- *Jan 2022–July 2022*

- ❖ Spearheaded the containerized deployment of Yellowfin with Docker, Java, & PostgreSQL.
- ❖ Quickly excelled at SQL extract, transform, & load operations for MySQL & PostgreSQL.
- ❖ Designed secure backup & storage for global customer base with Azure, & cloud storage mounts.
- ❖ Improved & maintained Mail/security with Nginx Reverse Proxy & DNS.
- ❖ Audited & provisioned Checkpoint Firewall, Checkpoint VPN, Mail Gateway, & PaloAlto firewall.

## **Skills**

### **Machine Learning Operations**

- ❖ Manipulating, filling, formatting, visualizing, transforming large datasets with Pandas, Matplotlib, Scikit-Learn, & VBA.
- ❖ Best practices for design, storage, & Jupyter Notebook models that are easily shared with python-based tools Miniconda conda environments.
- ❖ Managing, creating, & shaping arrays & performing operations with arrays with NumPy.
- ❖ Plotting data & visualizing it with matplotlib.
- ❖ Modelling of classification problems with Scikit-Learn, data prep, data split, training, testing, evaluation, & sharing with pickle.
- ❖ Designing Machine Learning algorithm for regression models using Scikit-Learn.

### **Java**

- ❖ Skilled in automating the build process of Java applications with tools like Jenkins Pipelines, GIT, Maven, SonarQube, Nexus, unit testing, Docker, AWS ECS, GitHub actions, ActiveMQ, & Tomcat.
- ❖ Working with JSP, Servlets, JDBC, Java dependencies, deploying webserver on Apache Tomcat, & installing Java/JRE.

### **Databases**

- ❖ Designed databases including normalizing data attributes into tables, dependency planning, implementation of primary key foreign key relationships.
- ❖ MySQL, PostgreSQL, MariaDB, MongoDB, Microsoft SQL Server, & Redis (Design methodologies).

### **Linux**

- ❖ Expertise creating services, building automation, & deploying various applications in both RPM & Debian based systems.
- ❖ Complete understanding of CentOS & Ubuntu including packages, users, permissions, file system, & networking.

**\*\* Portfolio sites are running daily by 10 AM PST & stopped daily by 5PM PST**

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