

# DevOps Certification Training (internship)

```
177 $total = $total + $taxes;
178 'taxes' => $total;
179 'total' => $total;
180 );
181 $old_taxes = $taxes;
182 $taxes = array();
183 $sort_order = array();
184 $taxes = $taxes;
185 $sort_order = $sort_order;
186 foreach ($results as $result) {
187     if (isset($result['code'])) {
188         $code = $result['code'];
189     } else {
190         $code = $result['key'];
191     }
192     $sort_order[$code] = $result['sort_order'];
193 }
194 $sort_order = array_multisort($sort_order, SORT_ASC, $results);
195 array_multisort($sort_order, SORT_ASC, $results);
196 foreach ($results as $result) {
197     if (isset($result['code'])) {
198         $code = $result['code'];
199     } else {
200         $code = $result['key'];
201     }
202     $status = $result['status'];
203     if ($status == 'active') {
204         $total_data[$code] = $result['total'];
205     }
206     if ($status == 'inactive') {
207         $total_data[$code] = $result['total'];
208     }
209     // We have to put the totals in an array so that they pass
210     // by reference.
211     $this->load_model('model_extension_total', $code);
212     $total_data[$code] = $this->getTotal($code);
213     $total_data[$code] = $this->getTotal($code);
214     $total_data[$code] = $this->getTotal($code);
215     $total_data[$code] = $this->getTotal($code);
216     $total_data[$code] = $this->getTotal($code);
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222     $total_data[$code] = $this->getTotal($code);
223     $total_data[$code] = $this->getTotal($code);
```

```
354 Carousel.prototype.getExtension = function (extension) {
355     this.$items = item.parent().children();
356     return this.$items.index(item || this.$active);
357 }
358
359 Carousel.prototype.getItemForDirection = function (direction, active) {
360     var delta = direction == 'prev' ? -1 : 1;
361     var activeIndex = this.getItemIndex(active);
362     var itemIndex = (activeIndex + delta) % this.$items.length;
363     return this.$items.eq(itemIndex);
364 }
365
366 Carousel.prototype.to = function (pos) {
367     var that = this;
368     var activeIndex = this.getItemIndex(this.$active = this.$element.find('.item.active'));
369     if (pos > (this.$items.length - 1) || pos < 0) return;
370     if (this.sliding) return this.$element.one('slid.bs.carousel', function () { that.to(pos) });
371     if (activeIndex == pos) return this.pause().cycle();
372     return this.slide(pos > activeIndex ? 'next' : 'prev', this.$items.eq(pos));
373 }
374
375 Carousel.prototype.pause = function (e) {
376     e || (this.paused = true);
377     if (this.$element.find('.next, .prev').length && $.support.transition) {
378         this.$element.trigger($.support.transition.end);
379         this.cycle(true);
380     }
381     this.interval = clearInterval(this.interval);
382     return this;
383 }
384
385 return this;
```

## Who am I?

- Eng. Simon Takite Kiwanuka - MSc. Information Systems  
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- TechLead, DevOps Consults (U) Ltd
- Senior Consultant
- DevOps evangelist



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# DEVOPS CONSULTS

DevOps, Cloud & Infrastructure Automation



MAKERERE UNIVERSITY

COLLEGE of EDUCATION  
& EXTERNAL STUDIES

DevOps Consults is a leading platform that helps IT organizations and professionals to adapt and learn all the emerging technologies in Software development lifecycle. We help technology organisations deliver better software and innovate at scale by adapting DevOps, Continuous Delivery and Cloud Computing!

College of Education and External Studies is mandated to prepare educators, community workers, administrators, inspectors of schools, curriculum designers and community outreach implementers to work at all levels and forms of the education system. It also focuses on the provision of adult, continuing, community, open, distance and e-learning. The College is a centre of excellence in the development, research and application of professional educational approaches in response to national and global needs.

The DevOps Certification training program will help you master various aspects of software development, operations, continuous integration, continuous delivery, automated build, test, and deployment. In this DevOps training course, you will learn DevOps tools like Git, Puppet, Jenkins, SVN, Maven, Docker, Kubernetes, Ansible, Nagios and more.

This is Uganda's first DevOps course validated & certified by the college of education and external studies (MUK) and aligns to Industry standards.

# Why take up this course?

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- The DevOps industry is expected to grow six times higher by the year 2022, according to Gartner.
- The average annual salary of a DevOps engineer in the US is \$ 136,500 and in Uganda between - 1,001,561 - 3,918,387 UGX
- Additionally, DevOps and Cloud jobs are going to be among the highest paying jobs in the coming years, according to Forbes.
- A DevOps specialist is the backbone of any IT organization's technical team .

<https://www.paylab.com/ug/salaryinfo/information-technology/devops-engineer>

# Who should take up this course?

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These DevOps classes can be taken up by:

- IT Professionals/Students
- Software Testers
- Systems Admins & IT Managers
- Solutions Architects
- Security Engineers
- Application Developers
- Integration Specialists
- Network Engineers



DevOps Experts can work in any of these roles:

- IT Team Leaders and technical project managers.
- Systems Administrators and IT Managers.
- Architects.
- Software Developers.
- Cloud Engineers.
- Deployment engineers.
- Operations support.

## Job market

- United Nations - 58 job listings - <https://unjobs.org/themes/devops>
- Andela - 5 job listings - <https://boards.greenhouse.io/andela>
- Laboremus - 1 job listing - <https://www.laboremus.ug/career/junior-devops-engineer>
- O4UG - 10 job listings - <https://www.o4ug.com/?s=devops>

1. Foundations of DevOps
2. Software version control systems (CVS) and hosting services
3. Introduction to Linux / Bash
4. Virtualization & Server Provisioning
5. Configuration Management
6. Build & Test Automation
7. Containerization with Docker - Ecosystem and Networking
8. Container orchestration using Kubernetes
9. Logs Management & Continuous Monitoring using Nagios
10. Introduction to DevOps on Cloud

1. Branching Development Model
2. Architecting Jenkins Pipeline for Scale
3. Building a CI/CD Pipeline with Jenkins
4. Dockerizing Jenkins Pipeline
5. Deploy Angular Application in Docker Container
6. Containerizing an Application and Scanning Its Docker Image with DTR
7. Social Media & Underlying Infra Challenges
8. IT Software Containerization
9. Hands on with Amazon DynamoDB Database

# Tools & Services covered

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Upon program completion, you will also receive an industry recognized Certificate from the College of Education & External Studies - MUK to testify your skills as a DevOps specialist.



# Questions ?