

# Ahmed Abdelsalam

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## Education

### Cairo University

Sep. 2019 - Jun. 2024

B.S. in Computer and Communication Engineering (CCE) | [Link to all courses](#)

**GPA: 3.11/4.0**

Relevant Courses: Operating Systems (C), Computer Architecture, Maths, Databases (MySQL), OOP (C++)  
, Algorithms and Data Structures I and II (C++), Image Processing (Python), NLP (Python)

### San Jose State University

Jan. 2023 - Jun. 2023

Exchange Semester in the United States

Relevant Courses: Artificial Intelligence (Python), Software Engineering (Nodejs & MongoDB)

## Professional Experience

### ABI Technology

Mar. 2024 - Present

**DevOps Engineer** *AWS, Docker, Kubernetes, CircleCI, Linux, Troubleshooting, Bash, Terraform*

### 4Sale International Co.

Jun. 2023 - Sep. 2023

#### DevOps Engineering Intern

*AWS, Docker, Kubernetes, CircleCI, Linux, Troubleshooting, Bash, Terraform*

- Implemented resource optimization measures, leading to a noteworthy 25% reduction in the monthly bill.
- Utilized Terraform to orchestrate the creation of infrastructure and establish an Amazon EKS (Elastic Kubernetes Service) cluster, automating the seamless setup and configuration of the development account on AWS.
- Collaborated with the team to troubleshoot issues and enhance Continuous Integration/Continuous Deployment (CI/CD) pipelines for improved efficiency.

## Projects

### Spartans Digital Bank

Feb. 2023 - Jun. 2023

#### Spartans Digital Banking System for SJSU Students

*Nodejs, Sequelize, MySQL, Postman, Docker, AWS, Git*

- Led the back-end team to develop robust API endpoints for user authentication, account management, and transaction logging using Nodejs.
- Documented endpoints for seamless integration with frontend and Android teams, while implementing containerization for reliable, platform-independent deployment. Designed the MySQL database schema and ensured standardized interactions using Sequelize.

### CI/CD Pipeline

Sep. 2022

#### Auto-deployment CI/CD Pipeline

*CircleCI, Docker, AWS, Ansible, Cloudformation, Prometheus*

- Implemented a streamlined 10-stage CI/CD pipeline using CircleCI for seamless AWS deployments, and incorporated Prometheus for effective resource monitoring.
- Integrated essential DevOps tools (Git, Docker, Kubernetes) and AWS services to establish a smooth and continuous delivery workflow, enhancing deployment efficiency and reliability.

## Leadership and Volunteering

### Google Developer Students Club

Sep. 2021 - Mar. 2022

#### Relations Vice President

- Organized the Research Day for Engineering students. Collected information and contacted guests for the events held on-campus such as the annual Job Fair.

## Technical Skills

### Languages:

Python, C++, SQL, Bash, JavaScript, PHP, C#, HTML

### Technologies & Tools:

Kubernetes (K8S), Git, Linux, Docker, CI/CD (CircleCI), Ansible, Terraform, AWS, Nodejs, Express, MongoDB

### Nanodegrees:

[Udacity Cloud DevOps Engineer.](#)