

# Juanito Aldebaran Siahaan

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## Education

### Queen's University Belfast

BSc Computer Science with Professional Experience

*Expected Graduation May 2026*

GPA: 2:1 Upper Division

### INTO Queen's University Belfast

International Year One in Engineering – Computer Science

*September 2022 – May 2023*

GPA: 78% (First Class)

## Work Experience

### Verint Systems Inc.

*Software Engineer Intern*

*July 2024 – August 2025*

*Belfast, United Kingdom*

- Automated critical backend endpoint deployment to Gravitee.io in a Dockerized environment with Go-Gin framework, leveraging Cobra CLI, enhancing deployment efficiency by 85% and significantly reduced manual configuration time
- Accelerated deployment velocity for Verint's Cloud Platform by developing a robust CI/CD pipeline using Harness, GitHub Actions, and Terraform (IaC), enabling continuous monitoring metrics performance via Datadog
- Implemented BDD testing with Ginkgo for Kafka-InfluxDB workflows, improving code coverage from 55% to 87%.

**Tech Stack:** Go (Gin, CobraCLI, Ginkgo), Docker, Podman, GitHub Actions, Harness, Kafka, InfluxDB, Datadog, Terraform

### Mitrates Indonesia

*Software Engineer Intern*

*July 2023 – September 2023*

*Jakarta, Indonesia*

- Designed web applications for Jakarta Public and Government Service using ReactJS with integrated WhatsApp AI chatbot
- Built geospatial visualization using ArcGIS data in Figma 3D, enhancing project efficiency by 75%
- Executed Software Development Work Lifecycle workflow from designing applications to deployment for 10+ feature implementations

**Tech Stack:** ReactJS, ArcGIS, Figma

### Bright Network

*Technology Summer Intern*

*June 2023 – July 2023*

*Belfast, United Kingdom*

- Developed full-stack site showcasing SME technology innovation toward Net Zero Carbon Emission for Lloyds Banking Group
- Utilized Docker to streamline deployment, improving end-to-end system reliability and code testing for websites

**Tech Stack:** ReactJS, Spring Boot, PostgreSQL, Docker

## Projects

### Final Year Project Dissertation – Credit Card Fraud Detection

*ReactJS, FastAPI, Docker, Scikit-Learn*

- Built a microservices full-stack ML-powered system for fraud detection using FastAPI and ReactJS dashboard
- Enabled real-time transaction monitoring and visualization in a Dockerized environment

### AldebaranHealth — Source Code — Live Website

*ReactJS, Flask, Spring Boot, Scikit-Learn*

- Created AI-powered healthcare assistant with PSS-10 psychological distress questionnaire
- Integrated OpenStreetMap API to locate 10+ healthcare services for user assistance

### eStockPal — Source Code — Live Website

*NextJS, Flask, Scikit-Learn*

- Built full-stack stock prediction platform using ML models for real-time market insights

### AldebaranTutor — Source Code — Live Website

*ReactJS, Flask, Spring Boot, Scikit-Learn*

- Developed an interactive e-learning platform with AI quizzes across Tech, Finance, and Engineering

## Leadership Experience

### Belfast Indonesian Student Society

*Head of Sport Event*

*September 2022 – September 2023*

*Belfast, United Kingdom*

- Led event team to manage 300+ Indonesian students to organize sport events, boosting annual participation

## Technical Skills

**Languages:** Java, Go, Python, JavaScript, TypeScript, SQL, HTML5, CSS, C, C++

**DevOps & CI/CD:** Docker, Podman, Harness, AWS, GitHub Actions, WSL, Linux, Datadog, Terraform, Kubernetes

**Libraries/Frameworks:** Spring Boot, Gin, Ginkgo, CobraCLI, ReactJS, NextJS, FastAPI, Flask, PostgreSQL, NoSQL, InfluxDB, Apache Kafka