

# Siddhantha Bose

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## EDUCATION

**University of British Columbia**, Vancouver, BC

EXPECTED APRIL 2024

BASc Computer Engineering: GPA: 3.8, Dean's Honour List (2017/18, 2022/23)

Relevant Coursework: *Machine Learning, Deep Learning, Cybersecurity, Distributed Systems*

## WORK EXPERIENCE

**Ektar Technologies**, Dubai, UAE | *Spring Boot, Keycloak, Kubernetes*

MAY 2023 - SEPT 2023

*Software Developer Intern, at a seed stage fintech company connecting Banks and Retailers to reduce customer acquisition cost*

- Implemented seamless social logins and access control using **Keycloak** for robust authentication
- Enhanced microsite security via **Twilio** OTP mobile verification to reduce bot activity
- Established a **Google Kubernetes** test instance, enabling seamless testing of frequent releases by our remote team
- Collaborated with the CEO to craft the investor one-pager and web design, helping raise **\$1.5 million**
- Expanded testing code coverage from 20% to 50% using **Mockito**, enabling biweekly releases

**Singapore Armed Forces**, Singapore | *Python, Heroku, Telegram API*

APR 2020 - JAN 2022

*Third Sergeant, Software Developer, serving a company of 150 soldiers in the combat engineers; placed **top 10%** of cadets at Sergeant Cadet School*

- Directly supervised the training and wellbeing of 25 soldiers, leading them through critical tasks
- Created a Python app in response to COVID induced challenges which allowed **700 soldiers** to sustain peak fitness levels while limiting the spread of disease
- Automated processes and created dashboards to streamline the tracking of training for 150 soldiers, reducing error rates by 40% and man hours by **60%**

**Magnitude Software**, Vancouver, Canada | *C++, Python, Bamboo CI/CD*

SEPT 2019 - MAR 2020

*Software Developer Intern, at a medium size company creating database drivers for more efficient data extraction*

- Implemented **Kerberos** protocol for fortified network security, enabling secure logins
- Created screens and implemented routing for ODBC/JDBC driver aggregation app with **Vue.js**
- Augmented Python automated testing suite, reducing manual testing by over **5%** per quarterly release

## PROJECTS

**Safe Sox**, Ankle Injury Prevention Solution | *Python, C++, Microcontrollers*

SEPT 2023 - PRESENT

- Conducted interviews and secondary market research leading to innovative ankle injury prevention solution
- Utilized market research insights to define tech requirements and establish competitive pricing for the product
- Integrated sensors and motors to perceive extreme ankle rotation, creating a dynamic engagement system for injury prevention

**Cooking Buddy**, AI Driven Recipe Recommender | *Node.js, React, REST, Express*

JAN 2023 - APR 2023

- Developed a Smart Fridge application prototype to keep track of a user's ingredients and recommend recipes, encouraging users to cook more and reduce waste
- Integrated a rudimentary hardware camera with a **React** web app to automatically recognize and update the pantry
- Leveraged third-party APIs to classify hundreds of ingredients and generate thousands of recipes

## ADDITIONAL

**Languages:** English (Fluent), Bengali (Fluent), Hindi (Fluent), French (Conversational)

**Programming languages:** Python, Java, C++, Javascript

**Tools and Frameworks:** Node.js, PyTorch, Kubernetes, Docker, Keycloak, Spring Boot, Mockito, Bamboo

**Passions:** Weightlifting, Cooking, Singing

