Siddhantha Bose

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EDUCATION

University of British Columbia, Vancouver, BC   *APRIL 2024*

Bachelor of Computer Engineering: 3.8 GPA, Dean's Honour List (2017/18, 2022/23, 2023/24)

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

WORK EXPERIENCE

D3 Security, Vancouver, Canada | *Cybersecurity, Python*   *JUNE 2024 - PRESENT*

Cybersecurity Engineer, creating a bespoke security solution for clients using our MITRE enhanced SOAR platform
- Implemented solutions to prevent cybersecurity incidents after translating client stories to technical requirements

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
- 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*
- Created a **Python** app in response to COVID induced challenges allowing **700 soldiers** to train safely
- 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, Vue,js*   *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

NoBreak, Ankle Injury Prevention Solution | *Entrepreneurship, Market Research, Sensors*   *SEPT 2023 - APR 2024*
- 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
- Designed and constructed a demonstration model, enhancing its appeal to potential customers and investors, showcasing the product's feasibility and value proposition

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