SUYASH SHEKHAR

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EDUCATION

**NATIONAL UNIVERSITY
OF SINGAPORE**
BComp in Computer Science
University Scholars Programme
Expected April 2020 | Singapore

SKILLS

Experienced:
Java •Python •Swift
HTML •CSS •iOS
Familiar:
Objective-C •Ruby
Ruby on Rails •C
Haskell •JavaScript
SQL •Prolog

COURSEWORK

Natural Language Processing
Machine Learning
Operating Systems
Programming Language Theory
Probability and Statistics
Software Engineering

TEACHING

Data Structures and Algorithms:
Spring, 2018

Software Engineering:
Fall, 2018

AWARDS

2018   **Best Project Award (iOS)**
NUS Computing
Project Showcase
2016   **NUS Science and Tech
Scholarship**
2014   **7 Distinctions**
at GCE 'A' Levels
2012   **A*STAR India Youth
Scholarship** (awarded to
top 7 students in India)
2012   **National Talent Search
Scholarship**

EXPERIENCE

SEA (GARENA) | SOFTWARE ENGINEERING INTERN
May 2018 - August 2018 | Singapore
- Build an iOS Debugging SDK using Swift 4 and Objective-C.
- Used **Objective-C runtime** to monitor network latency.
- **Socket programming** in Objective-C to monitor TCP/IP.
- **Assembly** and **system calls** to estimate CPU Frequency and RAM usage.
- Other notable features - generating **stack trace, view hierarchies, system configuration and resource consumption.**
- The SDK is incorporated into all new iOS applications by the company.

TINKERBOX STUDIOS | SOFTWARE ENGINEERING INTERN
May 2017 - July 2017 | Singapore
- Improved, deployed and maintained an **employee feedback system** used by **Grab** and its **over 2000 employees** .
- Refactored the **client management system** and designed a **mailer daemon** to send **real-time updates** to customers.
- Used Ruby on Rails and HTML, CSS and CoffeeScript(JS)/ jQuery.

PROJECTS

LUMOS | SWIFT, OBJECTIVE-C RUNTIME
July 2018 - Present
- A light Swift wrapper around Objective-C runtime methods.
- Provides a simple API for method/property swizzling and modifying methods, objects and classes at runtime.
- It is memory and type safe with Swift's strong type system.

NUSLIB | SWIFT
March 2018 - April 2018
- An iOS app which allows users to browse, search and reserve books from the NUS Libraries and track their borrowing history.
- Provides an internal review and recommendation system.
- Used Google Books & Goodreads API for book information and reviews.
- Other features include searching by ISBN barcodes and integration with Facebook and Twitter SDKs for sharing reading progress.

SORTING HAT | PYTHON
February 2018 - March 2018
- Used by the USP hostel office to allocate rooms to its **over 600 residents** .
- Modelled residents' preferences and administrators' constraints as a **Satisfiability Modulo Theories** problem and solved them using several smt solvers.
- Ran on **multiple nodes in parallel** for significant speed improvements.
- Made using **pysmt** and **z3-solver.**

CLUBS

NUS HACKERS | PRESIDENT
April 2017 – Present | NUS, Singapore
- A student group committed to spreading hacker culture and open source software in Singapore.
- Organised **Hack&Roll 2018,** the largest student-run hackathon in Singapore with **over 450 participants** and **over 100 projects.**
- Organised **weekly technical meetups** with speakers from the industry and academia. The club has organised **155 so far.**
- Taught **technical workshops** on git, html & css, ios and linux.