

Suyash Shekhar

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

BComp in Computer Science

University Scholars Programme

Expected April 2020 | Singapore

SKILLS

Experienced:

Python • iOS • Swift • NodeJS

Java • SQL • ReactJS • Prolog

JavaScript • AngularJS

Familiar:

Objective-C • Ruby • OCaml

Ruby on Rails • C • ExpressJS

Haskell • GraphQL

COURSEWORK

Natural Language Processing

Machine Learning

Operating Systems

Programming Language Theory

Probability and Statistics

Information Retrieval

Programming Language

Implementation

Advanced Logic and Formal

Systems

TEACHING

Data Structures and Algorithms:

Spring, 2018

Software Engineering:

Fall, 2018

AWARDS

2019 **Honour List of Student Tutors**

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

GOOGLE | SOFTWARE ENGINEERING INTERN

May 2019 - August 2019 | Mountain View, California

- Incoming intern on the Android OS Telemetry Team.

GARENA | SOFTWARE ENGINEERING INTERN

May 2018 - August 2018 | Singapore

- Built 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 features - **stack trace, view hierarchies, OS configuration and resource usage**.
- The SDK is incorporated into new iOS applications by the company.

TINKERBOX | 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.
- 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 & type safe and hence more secure than raw Objective-C.

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.
- Notable features include searching by ISBN barcodes and integration with Facebook & SDKs and Google Books & Goodreads APIs.

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.
- 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.
- Led **Hack&Roll 2019**, the largest student-run hackathon in Singapore with **over 520 participants** and **over 120 projects**.
- Organised **weekly technical meetups** with speakers from the industry and academia. The club has organised **160 so far**.
- Taught **technical workshops** on git, HTML & CSS and linux.