Julius Putra Tanu Setiaji

📱 +65 8552 2650 | 📱 +1 (510) 804-6363 | ✉ julius@indocomsoft.com | 🏠 indocomsoft.com | ⚙ indocomsoft | in indocomsoft

Education

National University of Singapore   *Singapore*

Year 3 Undergraduate, Bachelor of Computing (Computer Science), Honours   *Aug 2017 - May 2021 (expected)*
- Current CAP (Cumulative Average Points): 4.71 out of 5.00
- Coursework: Parallel Computing, Information Retrieval, Operating Systems, Data Structures & Algorithms, SICP, Linear Algebra

Technical Skills

Experienced Languages   Scala, SQL, Python, Swift, Elixir, JavaScript, React, C, Ruby, Bash, Java, PHP, LaTeX, HTML/CSS

Familiar Languages   Rust, Erlang, Objective-C, C++, Haskell

Frameworks   Apache Spark, OpenMP, MPI, UIKit, React, Phoenix, Ecto, Ruby on Rails

Experience

Stripe Inc.   *San Francisco*

Software Engineering Intern (Scala, Spark, React, Flow)   *May 2019 - August 2019*
- Joined Machine Learning Infrastructure team, Signals subteam – in charge of supporting Feature Engineering at Stripe.
- Built **an explorable catalog of machine learning features** to help Machine Learning teams better leverage existing features for new models.
- The catalogue includes sample data and aggregate metrics such as approximate heavy hitters (calculated using SpaceSaver algorithm).

Garena Online Pte. Ltd.   *Singapore*

iOS Software Engineering Intern (Swift, Objective-C, Functional Reactive Programming)   *May 2018 - Aug 2018*
- Developed **Chainsaw LogViewer**, an iOS file viewer app capable of handling 200k lines, extracting ZIP files, syntax highlighting, regex searching, and is integrated with the debugging menu of my team's product.
- App Store link: https://itunes.apple.com/sg/app/chainsaw-logviewer/id1423011730
- Analysed and improved CoreData performance in the company's iOS application by mitigating $(n+1)$ query problem.

Source Academy *(https://github.com/source-academy/cadet/)*   *Singapore*

Backend Architect and Team Lead (Elixir, Phoenix, Ecto, AWS)   *May 2018 - May 2019*
- Managed a team of 4 people developing a scalable back-end of Source Academy, the website for NUS CS1101S course, including features such as distributing problem sets, collecting answers, comments on student codes, and auto-grading (on AWS Lambda serverless architecture)
- Maintaining and deploying the website on AWS during the course of the CS1101S module, including Practical Examination for 420 students.
- Designed the overall architecture of the system, including the database schema and API with input from the front-end team.
- Reviewed code submitted by team members. Documented the API interface using `swagger` and achieved 99% code coverage.

National University of Singapore   *Singapore*

Teaching Assistant for CS1101S (SICP), CS2100 (Computer Architecture), CS3210 (Parallel Programming)   *Aug 2018 - PRESENT*
- Teaching several groups of tutorial for undergraduate students, achieving feedback score of 4.4 out of 5.0 (above Faculty average).
- Preparing, proofreading and grading assessments used in the courses

Projects

Fluminus, Fluminurs *(http://github.com/indocomsoft/fluminus/, http://github.com/indocomsoft/fluminurs/)*   *Singapore*

Developer (Elixir, Rust)   *Jan 2019 - PRESENT*
- Reverse-engineered the API of NUS Learning Management System to provide CLI tool to download files.
- Wrote a Telegram Bot to send push notification when a new announcement is made on the NUS Learning Management System website.

Extracurricular Activity

NUS Hackers   *Singapore*

Coreteam Member   *Nov 2017 - PRESENT*
- Organising **Hacker Tools**, a series of events targeting Computing students how to make the most of tools that productive programmers use.
- Teaching JavaScript, HTML and CSS in **Hackerschool** workshops.
- Organising **Hack & Roll**, Singapore's largest student-run hackathon.
- Organised **Friday Hacks**, weekly Friday meetups which include one or two technical talks with speakers from the industry or academia.

NUS Student Union Committee for Information Technology   *Singapore*

Head of Technical Cell   *Aug 2017 - July 2019*
- Rewrote in Ruby on Rails the internal Co-Curricular Activity website used to track supervising duties from existing the PHP system.

Awards

2018	**Honourable Mention**, Orbital (Project Gemini)	*Singapore*
2016	**Bronze Medallist**, Singapore 19th National Olympiad in Informatics	*Singapore*