Julius Putra Tanu Setiaji

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Education

National University of Singapore *Singapore*

Year 4 Undergraduate, Bachelor of Computing (Computer Science), Honours *Aug 2017 - Dec 2020 (expected)*

- Current CAP (Cumulative Average Points): 4.76 out of 5.00 (3.81 out of 4.00)

Technical Skills

Experienced Languages Scala, Elixir, C, Ruby, Python, Swift, TypeScript/JavaScript, Java, Shell, SQL, LaTeX, HTML/CSS

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

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

Experience

Stripe Inc. *Singapore*

Software Engineering Intern (Global APAC Banking Team: Ruby, proto3) *May 2020 - July 2020*

- Built **an integration with a new payment method** and decoupled my team's services so that they can be **deployed safely and independently**.
- **Saved the company up to hundreds of eng-hours/month** by speeding up scripts runtime along with contribution to Sorbet (https://sorbet.org/).

Asana Inc. *San Francisco*

Software Engineering Intern (Security Team: Python, TypeScript/JavaScript, AWS) *January 2020 - April 2020*

- Smoothly **ported over existing services to AWS Lambda** for more granular permissions and to run risky software on a separate infrastructure to mitigate potential impact of security breaches, including Asana's image thumbnailing, video snippet creation, and webhook services.
- Created **a data pipeline to easily query and audit logs** of engineers access to production machines.

Stripe Inc. *San Francisco*

Software Engineering Intern (Machine Learning Infrastructure Team: Scala, Spark, React, Flow/JavaScript) *May 2019 - August 2019*

- Built **an explorable catalog of machine learning features** to help Machine Learning teams better leverage existing features for new models.
- The catalogue includes visualization of the DAG (Directed Acyclic Graph) of the data transformation used to calculate the feature, sample data and aggregate metrics such as approximate heavy hitters (calculated using SpaceSaver algorithm).

Garena Online Pte. Ltd. *Singapore*

iOS Software Engineering Intern (iOS Team: 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

National University of Singapore *Singapore*

Teaching Assistant *Aug 2018 - Apr 2020*

- Preparing materials and teaching tutorials for undergraduate students, achieving feedback scores above the Faculty average.
- Courses: CS1101S (SICP), CS2100 (Computer Architecture), CS3210 (Parallel Programming), CS3217 (Software Engineering, iOS Platform)

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 course management website for NUS CS1101S course
- Designed the overall architecture of the system, including the database schema and API with input from the front-end team.

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 a cross-platform CLI tool to download files from the site.

Extracurricular Activity

NUS Hackers *(https://nushackers.org)* *Singapore*

Coreteam Member *Nov 2017 - PRESENT*

- Pioneered **Hacker Tools**, a series of events targeting Computing students how to make the most of tools that productive programmers use.
- Organising **Hack & Roll**, Singapore's largest annual student-run hackathon.
- Organised **Friday Hacks**, weekly Friday meetups which include one or two technical talks with speakers from the industry or academia.

Awards

2020	**Dean's List**, NUS School of Computing	*Singapore*
2019	**Category Winner**, NUS School of Computing 15th Term Project Showcase	*Singapore*
2018	**Honourable Mention**, Orbital (Project Gemini)	*Singapore*
2016	**Bronze Medallist**, Singapore 19th National Olympiad in Informatics	*Singapore*