

# James Arista Yaputra

Computer Eng. Undergraduate at the National University of Singapore (NUS)

A tech enthusiast with experience in software engineering, big data, data analytics, and data engineering  
In pursuit of career-propelling opportunities



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## ABOUT ME

I am a penultimate Computer Engineering student at the National University of Singapore aspiring to deepen my understanding and gain insights in the technology industry, with a particular interest in software as tools to improve the lives of many.

As someone who has always been fascinated by the amazing feats technology has helped us achieve, I am constantly exploring different fields of computer technology. From software engineering to data analytics, I am always in pursuit of opportunities to not only expand my skill set, but also bring about change to the world we live in.

## EXPERIENCE

I have had the opportunity to work in two of Southeast Asia's largest tech companies, namely Gojek and Shopee, working on projects that have had huge impacts on not only the companies, but the users as well.

My work in Gojek as a software engineer mainly revolved around the building of large-scale and resilient data pipelines to feed Gojek's machine learning models with data, which helped teams in Gojek react to events on the ground as fast as possible. My work in Shopee as a fraud analyst was instrumental in the fraud team's efforts to reduce the frequency of fraudulent cases on the platform, providing customers the peace of mind they deserve when shopping online. One of my responsibilities was to conduct exploratory analyses on new large-scale cases, providing the team with trends and insights that helped the company better understand the ever-evolving world of fraud.

Additionally, alongside several friends, I co-founded Scrio.ai, a tech startup with a mission to help businesses account for uncertainties in their operations using forecasting powered by artificial intelligence. I am solely responsible for laying out infrastructure and build ETL pipelines for projects undertaken by the team.

## INTERNSHIP OBJECTIVES

I consider myself a student both within and beyond my studies in university; I am in it for the journey of learning and growing, and I hope to be able to do so with a company with a mission I believe in. Given this, I would love to explore and expand my skill set and am more than willing to explore fields such as, but not limited to, web development, mobile development, and data science; my breadth of experience serves as a testament to my ability to learn & grow fast.

## SKILLS

<b>Programming</b>	Python, C, C++, Java, Go, Assembly
<b>Databases</b>	PostgreSQL, MySQL, MongoDB
<b>Operating Systems</b>	MacOS, Windows 10, Unix
<b>Office Productivity</b>	Microsoft Word, Microsoft PowerPoint, Microsoft Excel, Keynote
<b>Misc.</b>	Apache Spark, Apache Airflow, Amazon Web Services (AWS), Google Cloud Platform (GCP), RESTful API

## WORK EXPERIENCE

### Scrio.ai - Co-founder, Data Engineering Lead [🔗](#)

*Feb 2019 - Present*

- Tech Stack: Python, Apache Airflow, Amazon Web Services
- Scrio.ai provides businesses with demand forecasting tools to help them account for uncertainties in their processes. Currently operating in the industries of retail & workforce management
- Secured a grant of SGD 10,000 from NUS Enterprise
- Showcased our product at Innovfest Unbound 2019, one of Asia's largest annual tech & startup conferences
- Responsible for infrastructure, data warehousing, data collection & analytics, and the building of ETL pipelines

### Shopee Singapore, Fraud & Risk - Fraud Analyst Intern [🔗](#)

*May 2019 - Aug 2019*

- Tech Stack: Python, SQL, Apache Spark
- Performed key exploratory analyses on large-scale fraud cases using Python & SQL, of which the results were presented by the team to Shopee's CEO
- Significantly reduce (up to 80%) the frequency of a variety of fraud cases happening in Shopee's regional markets by formulating SQL rules to aid in the suspension of fraudulent users
- Reduced the team's operational overhead through workflow automation and orchestration

### Gojek Indonesia, Fraud & Risk - Software Engineer Intern [🔗](#)

*May 2018 - Aug 2018*

- Tech Stack: Go, Python, SQL, Apache Airflow, Google Cloud Platform
- Worked in close collaboration with the Data Science & Analytics team to build data pipelines that can handle hundreds of gigabytes daily to prevent and detect fraudulent activities on Gojek's platforms
- Improved the team's applications' reliability and testing coverage by writing integration tests and setting up environments to allow software tests on mock Apache Kafka cluster

## EDUCATION

### National University of Singapore, B.Eng (Hons.) in Computer Engineering *Aug 2017 - Jul 2021*

- Cumulative Average Point of **4.25/5.00**
- Second Major in Innovation & Design
- Relevant course details in Appendix A

### Djuwita Medan High School

*Aug 2014 - Jul 2017*

- Natural Sciences specialization
- Graduated with an average score of **90.1/100.0** (Indonesian National Examinations)

## EXTRACURRICULARS

### Operational Coordinator, NUS Entrepreneurship Society (NES)

*Aug 2019 - Present*

- NES promotes entrepreneurship at the National University of Singapore by conducting events for students and the public to participate in
- A member of the Global Division, which is responsible for organizing UNICON, Southeast Asia's largest annual student-led entrepreneurship conference
- Supervise intra-divisional affairs and operations, such as liaising with external organizations for events, monitoring members' performance index, conducting industrial workshops, setting up divisional meetings, etc.

### Student Conductor, NUS Angklung Ensemble

*Aug 2018 - Present*

- NUS Angklung Ensemble is a musical club in NUS with a mission to promote traditional Indonesian musical instruments by performing at various events in campus
- Manage and supervise an ensemble of 60+ angklung musicians
- Responsible for arranging songs to be played by the ensemble
- Conduct & lead performances at various events within the NUS campus area

## PROJECTS

### Scrio.ai Visualization Dashboard

- The team at Scrio.ai developed a simple Minimal Viable Product (MVP) in the form of a dashboard to showcase our ability in visualizing forecasts for our clients to leverage on in their operations
- Responsible for provisioning and maintaining a MongoDB Atlas cluster and built data pipelines using Python, Apache Airflow & Amazon Web Services

### Vincent: Search & Rescue Robot

- Alongside a team of NUS Computer Engineering students, built a prototype search and rescue robot that could be controlled remotely through Wi-Fi and navigated using Simultaneous Localization and Mapping (SLAM)
- Responsible for setting up, calibrating and writing the firmware for the robot's sensors

### Event Manager

- As part of the Software Engineering course in NUS, built a simple application for users to manage personal events using Java and JavaFX. I was responsible for building the log in and sign up feature for this application

## COMPETITIONS

### Winner of Grab Challenge, AngelHack Singapore 2019

- Built a simple web-app called iFatigue; a driver drowsiness detection system which utilizes computer vision to help keep drivers alert on the road
- Responsible for the computer vision aspect of the project, utilized Python's OpenCV library
- Won a total of SGD 1,500 and an invitation to pitch in Grab's HQ

## APPENDIX A

Groupings	Courses	Grade
Computer Software	Programming Methodology	A-
	Data Structures & Algorithms	A-
	Computer Engineering Principles & Practices	A-
	Real-Time Operating Systems	B+
	Software Engineering & Object-Oriented Programming	B+
	Computer Vision	IP
	Machine Learning	IP
	Database Systems	IP
Computer Hardware	Transistor-Level Digital Circuits	A
	Computer Organization	B+
	Digital Design	B+
Mathematics	Signals & Systems	B+
	Discrete Structures	S
	Engineering Calculus	S
	Differential Equations for Engineering	S
	Linear Algebra for Engineering	S
	Probability & Statistics	B
Language	Effective Communication for Computing Professionals	A-
	English for Academic Purposes	B+

### NUS Grading Scale

- A+/A (5.0); A- (4.5); B+ (4.0); B (3.5); B (3.0); C+ (2.5); C (2.0); D+ (1.5); D (1.0); F (0)
- S = Satisfactory; U = Unsatisfactory
- CS = Completed Satisfactorily; CU = Completed Unsatisfactorily
- EXE = Exempted; IC = Incomplete; IP = In Progress; W = Withdrawn