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Internship Objective

I am a Year 2 Computer Science student looking for a data science internship. My last internship was with a consulting team that provided external clients with insights gleaned from internal data. For my next internship, I hope to work with a product team that uses data to improve engagement e.g. customer analytics, or to create new features e.g. recommender systems.

About Me

I used to major in Business Analytics, but recently transferred to Computer Science because I loved the technical parts of the course. By picking the Artificial Intelligence specialization, and supplementing that with the right Statistics classes, I felt that I would be able to get a more rigorous introduction to the technical aspects of data science. That is also why I can confidently say that I'm not afraid of technical details, and I'm always eager to dive in and learn more.

I only started programming when I entered university, but I pick things up quickly. In the past year, I've taught introductory programming classes in Python, conducted an R workshop for incoming Business Analytics students, as well as built web applications in Javascript.

Past Experience

For the last two semesters, I've been an undergraduate teaching assistant for the introductory Programming Methodology class. This class is conducted in Python, and has been really useful in helping me get my basics right, since I have had to explain concepts clearly and succinctly to students week after week during tutorials. I have also developed an eye for spotting bugs after spending so much time marking my students' code.

Last summer, I spent three months working with the data science team from Starhub, a local telecommunications company. While I was there, I worked on a classification problem to differentiate paid gambling sites from other types of gambling-related sites. This involved first scraping text off the websites, then performing tokenization i.e. breaking the text into words or phrases, and finally applying various machine learning algorithms. Using this process, I was able to achieve slightly more than 80% accuracy rate on an unseen dataset.

How I Can Contribute

With my background, I believe I can quickly get familiar with your company's technology stack and start contributing from week one. Coming from Singapore, I'll be bringing a fresh pair of eyes and a unique perspective. My experience as a tutor will also allow me to better communicate my ideas and suggestions. Lastly, as in everything I do, I will put my best foot forward and do my best to help your company achieve its targets.

Work Experience

May 2016 – July 2017 **Garena Labs**
Software Engineer Intern (Data)
- Working in Shopee's Ecommerce Search and Recommendation team

Sep 2016 – April 2017 **NUS School of Computing**
Teaching Assistant
- Teach classes for CS1010S Programming Methodology (Python)
- Conduct weekly tutorials and grade students' work
- Received rating of 4.6/5.0 compared to department average of 4.2/5.0

May 2016 – Jul 2017 **Starhub Mobile Private Limited**
Data Science Intern
- Developed prototype classification models that achieved more than 80% accuracy in identifying different types of online gambling websites
- Set up local Cassandra cluster for performance testing
- Scrape relevant data to identify trending threads on local forum HardwareZone

Projects

Sep 2016 – Nov 2016 **GiveForFree.sg**
Backend Developer
- Worked in a team of 4 to build a second hand online marketplace that raises funds for charities
- Wrote backend in NodeJS and ExpressJS

Sep 2016 – Nov 2016 **Sunday Folks Analytics Report**
- Provide data-driven recommendations for local dessert café, Sunday Folks
- Scraped data off Facebook, Twitter, Instagram, and various review sites
- Built a simple map visualization to show prices of possible rent locations against competitor locations

Jul 2016 **R Workshop For Incoming Freshmen**
- Conducted a one-day workshop for Business Analytics freshmen
- Introduced data.table and RStudio

Education

Aug 2015 - Present **National University of Singapore** Singapore
Bachelor of Computing (Honours) in Computer Science
(Course details in Appendix A)

Skill Sets & Proficiency

Programming	Java	Proficient
	Python	Proficient
	R	Intermediate
	Javascript	Basic
Web	HTML, CSS, Bootstrap	Proficient
	Flask (Python Backend Framework)	Intermediate
	NodeJS, ExpressJS	Basic
Database	MySQL DBMS	Intermediate
	SQL	Intermediate
Data (Python)	Scikit-learn	Intermediate
	Pandas	Intermediate
	Scrapy	Basic
	BeautifulSoup	Basic
	NTLK	Basic
Data (R)	data.table	Intermediate
	ggplot2	Basic

Language Proficiency

Spoken	English – fluent; Mandarin – fluent
Written	English – competent; Chinese – average

APPENDIX A

Degree: Bachelor of Computing (Honours) in Computer Science
Cumulative Average Point: 4.87 / 5.00

Course Type	Course Description	Grades
Business	Financial Accounting	A
	Marketing	A
	Introduction to Business Analytics	A-
	IT and Decision Making	A+
	E-Business Essentials	A-
Computing	Programming Methodology	A+
	Data Structures and Algorithms Accelerated	A+
	Computer Organization	A
	Software Product Engineering for Digital Markets	A+
	Independent Work (Orbital)	CS
	Software Engineering	In-progress
	Introduction to Operating Systems	In-progress
	Design and Analysis of Algorithms	In-progress
	Cyber Security	In-progress
Mathematics	Discrete Structures	A
	Linear Algebra I	A+
	Calculus for Computing	A+
	Probability	A-
	Mathematical Statistics	In-progress
Miscellaneous	Computing and Society	A-
	Quantitative Reasoning	A+
	Personal and Interpersonal Effectiveness	CS
	Effective Communication for Computing Professionals	In-progress

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