

## Wei Boon Lum

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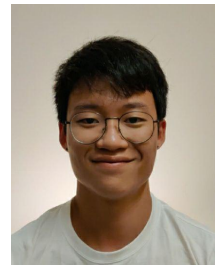
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## Work Experience

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Jul 2020 - Present

### Anywhr (NUS Overseas Colleges)

*Full Stack Software Engineering Intern*

- Design and develop anywhr.co and internal trip planning tool
- Multi-channel notification system (WhatsApp, Telegram, Email, Messenger)
- Build data-acquisition pipeline for large scale query and scraping of travel related data
- Build Machine-learning models for URL classification
- Tech Stack: React, Redux, Loopback, PSQl, Knex, Keras, internal.io, AWS RDS, Scrapy, Elasticsearch, Spacy

May 2020 - Jul 2020

### M1 Limited

*Software Engineering Intern*

- Assist in migration of dataware hose reporting system
- Design and develop web report application
- Tech Stack: RHV, ReportServer, MySQL, JasperReport, BIRT, Tomcat

Jan 2020 - May 2020

### National University of Singapore

*Teaching Assistant – CS2103 Software Engineering*

- Supervised 2 teams in developing command-line based applications written in Java
- Topics included: UML, object-oriented programming concepts, testing, documentation, deployment

Oct 2019 - May 2020

### Truffle Technologies

*Backend Software Engineering Intern*

- Build and support all backend services using ExpressJS
- Built real-time notification service using Firebase Cloud Messaging and Redis-Backed Bull Queue
- Build docker services (chat, video, notifications)
- Tech Stack: mongoDB, expressJS, Docker, Firebase Cloud Messaging, AWS Cloud Services

May 2019 - Aug 2019

### Thatz International Pte Ltd

*Full Stack Web Development Intern*

- Develop full MVC web features
- Built generic repositories for backend service layer
- Automated front-end testing using Selenium
- Application-wide exception handling and logging
- Tech Stack: C#, ASP.NET, SQL, Telerik, Selenium, Elastic Search, Razor Pages, Xamarin, Azure DevOps

Feb 2018 - May 2018

### Meltwater

*Junior Media Analyst*

- Wrote bash script to automate the downloading of webpages
- Generate consumer insight reports using data analytics and social media monitoring

Dec 2017 – Feb 2018

### Autoarmour / Gigacover

*Backend Software Engineering Intern*

- Geofencing and tracking of vehicle GPS locations
- Vehicle data processing and analysis
- Tech Stack: Python, PSQL, MongoDB, Django

## Education

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Aug 2018 - Present      **National University of Singapore**  
 Bachelor of Computing (Honours) in Computer Science  
*(Course details in Appendix A)*  
 Currently pursuing a final year project in push button verification of distributed systems.

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## Scholastic Achievements/Extracurricular Activities

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Aug 2021 - Present      **Kent Ridge Hall 42<sup>nd</sup> Junior Common Room Committee**  
 Acting Honorary General Secretary for the hall. In charge of all administrative matters and oversees the IT and Automation Committee.

May 2020      **nHouse Pitch Night 1<sup>st</sup> Runner Up**  
 Pitched a mental health start-up idea and won \$10,000 grant and incubation space to further develop the idea.

Jul 2020 – Dec 2020      **NUS Overseas College (NOC)**

- Originally New York Batch 14, but converted to Singapore program due to covid-19 pandemic
- Internship at Anywhr, a bespoke trip planning & itinerary curation service, as full-stack web developer
- Entrepreneurship skills: market validation, valuation, pitching

Aug 2018 - Present      **Scholarship**  
 Singapore Industry Scholarship (M1 Limited)

May 2020      **CodeForCorona Virtual Hackathon Champions**

- Online competition to build solutions during COVID-19 pandemic
- Developed a news verification telegram bot (@stopfakenewsbot) based on Spacy NLP models and crowd-sourcing news validity.

Jan 2020      **Dean's List**  
 Received the Deans' List award from NUS School of Computing for stellar academic performance (top 5% of the cohort)

Jan 2020      **NUS Makerthon 2020 1<sup>st</sup> Runner Up**

- Hardware-based hackathon focusing on social interactive design
- Developed AI video journaling soft toy for people with depression
- "Understands" users' emotions based on their facial expression
- Built using Raspberry Pi, OpenCV, Tensorflow and Python

Sep 2019      **Circles.Hack 2019 Finalist**

- Virtual hackathon organized by local network operator
- *SaveLeh* provides in-depth expenditure analysis for the user, and offers recommendations based on user's spending habits.
- Built using Java and Android Studio

Sep 2019      **NUS Innoventure IdeaLaunch Champions**

- Annual engineering and entrepreneurship competition
- Developed and pitched a household water-saving system which also doubles as a shower rack

## Skill Sets & Proficiency

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<b>Programming</b>	Java	Proficient
	C#	Proficient
	Python	Proficient
	JavaScript	Proficient
	C	Intermediate
<b>Artificial Intelligence / Machine Learning</b>	OpenCV	Basic
	TensorFlow	Basic
	Spacy	Basic
<b>Web</b>	JavaScript, HTML, CSS	Proficient
	Flask	Intermediate
	ASP.Net	Intermediate
	React / Redux	Proficient
	ExpressJS	Proficient
	Loopback	Proficient
<b>Testing</b>	Selenium	Intermediate
	NUnit	Intermediate
	Junit	Intermediate
	Moq	Intermediate
<b>Database</b>	MYSQL	Proficient
	MongoDB	Proficient
	Redis	Intermediate
	PSQL	Proficient
<b>Mobile</b>	Android Studio (Java)	Intermediate
<b>Deployment</b>	Docker Containers	Proficient
	Azure DevOps	Proficient
	AWS EC2 / Cloudwatch	Intermediate
	Heroku	Intermediate
	GitHub Pages	Intermediate
<b>Verification</b>	TLA+	Proficient
<b>Hardware Skills</b>	Raspberry Pi	Intermediate
	Arduino	Intermediate

## APPENDIX A

**Degree:** Bachelor of Computing (Honours) in Computer Science

**Cumulative Average Point: 4.74 / 5.00**

Category	Course Description	Grades
Computing Fundamentals	Programming Methodology	A
	Programming Methodology II	A-
Software Development	Software Engineering ^	A
	Independent Software Development Project #	CS
Algorithm and Theory	Data Structures and Algorithms	A
	Discrete Structures	A-
	Design and Analysis of Algorithms	CS (COVID)
Operating Systems	Computer Organization	A-
	Introduction to Operating Systems	A-
Network and Security	Introduction to Computer Networks	A
	Introduction to Information Security	A
	Computer Networks Practice	In Progress
	Internet Architecture	In Progress
Artificial Intelligence	Introduction to Artificial Intelligence	B+
	Machine Learning	B+
	Natural Language Processing	In Progress
Database Systems	Database Systems	B+
Distributed Systems	Parallel and Distributed Algorithms	A
Mathematics	Calculus for Computing	A-
	Linear Algebra I	A-
	Probability and Statistics	A
	Living with Mathematics	A
Electives	Product & Business Plan Competition *	CS
	Product & Business Development *	CS
	Start-up Case Study & Analysis	A
	Lean Startup: Market Validation	A-
	German 1	S
	Quantitative Reasoning	A
	Natural Heritage of Singapore	A
	General Biology	A-

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### 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