

## SUNG-LIN(ARTHUR) CHANG

Upcoming intern @ Ansys, Inc. | arthurchang516@gmail.com | 1(519)871-5888 | [Linkedin](#) | [Github](#) | [Website](#)

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### EDUCATION

#### Western University

##### M.Eng. Communications and Signal Processing

- Cumulative GPA: 4.0/4.0

#### University of California, San Diego

##### Bachelor of Science in Data Science, Minor in Economics

- Advanced GPA: 3.7/4.0 (Junior and Senior Year)

London, Canada

September 2022 - Current

San Diego, USA

August 2017 - March 2021

### PROFESSIONAL EXPERIENCE

#### D2L (Desire2Learn)

##### Software Developer (Data Analytics) Co-op

- Implemented page-to-PDF functionality using highchart offlineExporting and jsPDF libraries.
- Revamped B2B corporate dashboards in Domo to effectively monitor user activities, compliance, progress, and awards, while implementing data segregation through PDP for seamless deployment in corporate environments.

Kitchener, Canada

May 2023 - Current

#### Cyberbiz Corp.

##### Data Engineer

- Developed 8 Flask backend BI APIs logic, providing over 2000 active online shops with automated analytics.
- Maintaining and adding ETL pipelines between BigQuery and MySQL database using crontabs, time scheduler and python; ensuring validity of both databases.
- Composed 21 SQL queries by extracting vital data used to train models, business analytic and examination of company's current financial trajectory.
- Automated python code linting with darker and pylint library using drone CI/CD.

Taipei, Taiwan

March 2022 - August 2022

#### Cyberbiz Corp.

##### Data Engineer Intern (Natural Language Processing)

- Fine-tuned BERT and implemented it alongside with a rule-based filter for binary classification and 190 categories multi-class classification; resulted in 92% F-1 score and 80% accuracy respectively while minimizing at least cost of 20 people in manual labor.
- Written and adjusted 26 SQL queries based on changes of the BI logic.

Taipei, Taiwan

June 2021 - February 2022

#### Galaxy Software Services Corp.

##### Assistant Python Software Engineer

- Utilized PyQt5 GUI library to compose an application for 8 APIs, generating companies 50,000 - 80,000 USD in revenue.
- Created a Control-M API that automatically translates excel instructions into json input and in reverse, currently used by an insurance company to eliminate manual input.

Taipei, Taiwan

July 2021 - June 2022

#### Harvest Fund Management Co. Ltd.

##### Data Lab Research Intern

- Critiqued code of Gated Recurrent Unit (GRU) deployed in company default trend prediction with ~65% accuracy.
- Created an NLP classification model classifying product categories for all companies listed on the Chinese market and minimized 70% of manual labor.
- Developed a tree-structured sorting algorithm on the entire Chinese market singling out companies with huge upsides and decreased selection time by at least 80%.

Beijing, China

January 2021 - April 2021

### PROJECTS

#### 5G Coverage Characterization Through Crowdsensing (Kotlin, Python, Started Jan 2023) London, Canada

- A proposed mobile crowdsensing technique will be utilized to efficiently and cost-effectively create location-specific 3D propagation and coverage models. A distributed software and mobile app will be developed to coordinate the crowdsensing process and perform data analysis.

### SKILLS AND ASSETS

- Languages: Fluent in Mandarin and English; Conversational Proficiency in Min; Basic Spanish.
- Technical Skills: Python (Pandas, PyTorch, Apache Spark, Flask), SQL, GIT, GCP, JavaScript, Java, Kotlin