

## 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

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### 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.
- Designed and executed data pipeline, seamlessly connecting AWS Quicksight, S3, and Athena.

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

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### PROJECTS

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

- Proposed and conceptualized an innovative mobile crowdsensing technique for efficient and cost-effective creation of location-specific 3D propagation and coverage models.
- Spearheaded the development of a distributed mobile app to seamlessly coordinate the crowdsensing process.

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### SKILLS AND ASSETS

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