

# ANH 'ANDY' LE

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## EDUCATION & SKILLS

**DePauw University** – Computer Science major, GPA 4.0/4.0

BA expected in  
December 2022

- **Honors:** Dean's List, DePauw's Merit Scholarship for four academic years.
- **Programming Skills:** Java, C++, Python, SQL, bash, Linux/Unix environments, git, mercurial.
- **Languages:** Vietnamese, English (fluent); Japanese, Korean, and Chinese (conversational).

## WORK EXPERIENCE

**Software Engineering Intern, Google** – [Google Store Trade-in](#) (Java, protobuf, gRPC, Borg)

Summer 2022

- Improved business operations for Google Store's Trade-in program which generates 40 million dollars in revenue every year
- Designed and shipped a distributed data processing pipeline that automated customer communication for 9% of delayed trade-ins, offloading the work of customer support by 20%.
- Designed a new **gRPC** endpoint to trade-in that allowed 10% of faulty trade-ins to be rolled back, completely cutting off manual work and communication costs across teams.
- Produced 2 designed docs and pushed 2,000+ lines of code.

**Software Engineer, Coc Coc Ltd** – Largest Vietnamese [search engine](#) (Spring, Jetty, MariaDB, RESTful API)

September 2020 –  
September 2021

- Independently shipped and maintained Query Parser – a core service written in **Java** that handles all incoming queries at over 200 queries per second by tokenizing, correcting misprints, extracting connotation and context, and generating related information
- Implemented new query normalizing mechanism that reduced empty results by 50%.
- Shipped vertical search microservices for education purposes with 94% precision. These microservices crawled the web using **Jsoup** then indexed data into **MariaDB** using **JPA Hibernate**.
- Designed and shipped Proxy API Gateway, a zero to one project using **Spring** that routes 120,000 specific search requests per day to affiliated partners' services such as Vietnam Airlines (flights search), Vietnam News Agency (verified news search) for better results.
- Collaborated with front-end team to coalesce the services into an education-oriented product that serves 30,000 queries every day, empowering online tutoring during the pandemic. ([Link to product](#))
- Reviewed 35+ code reviews with the total of 10,000+ lines of code.

**Software Development Intern, DePauw Computer Science Department** (PyTorch, Coq, Gallina, TreeLSTM)

Summer 2019

- Designed and implemented an Interactive Theorem Prover that helps students and instructors create mathematical proofs and program verifications. Integrated the interactive feature of selecting of "proof tactics," i.e., strategies for combining known facts to progress towards a proof goal.
- Translated proof data into tree structures to fit into a **TreeLSTM**, a type of recurrent neural network (**RNN**) underlying our **NLP** model using **PyTorch**.
- Worked on a four-person team to use machine learning and natural language processing (**NLP**) to help people predict useful tactics.

## PROJECTS

**DePauw Rate My Professor Quick Search Chrome Extension** (Python, jQuery, JavaScript)

Winter 2018

- Scraped the rating and information of all DePauw professors from Rate My Professor using **Python**.
- Created a Chrome Extension using **JavaScript** to show professors' information upon hovering their names on the school's courses website ([Chrome Web Store](#) and [GitHub](#)).

**President, DePauw University Data Science Club** (PyTorch, Pandas, OpenCV, NumPy, Matplotlib)

Fall 2018 – present

- Achieved first place in the Saint Mary's Hackathon with a Convolutional Neural Network (**CNN**) in **PyTorch** to classify 14,000 images of mathematical symbols with over 80% accuracy.
- Led a three-person team representing DePauw in the International Collegiate Programming Contest (**ICPC**). Ranked top 16 in the East Central North America Regional.