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| **ANH ‘ANDY’ LE**  UB#5883 408 S. Locust Street, Greencastle, IN, 46135  [github](https://github.com/anhTimeLimitExceeded) | [linkedin](https://www.linkedin.com/in/andy-le-54b545161/) | [anhle\_2023@depauw.edu](mailto:anhle_2023@depauw.edu) | (765)-712-2183 | |
| **EDUCATION & SKILLS** | |
| **DePauw University** *–* Computer Science major, GPA 4.0/4.0   * **Honors:** Dean’s List, DePauw’s Merit Scholarship for four academic years. * **Programming Skills:** Java, C++, Python, SQL, bash, Linux/Unix environments, git. * **Languages:** Vietnamese, English (fluent); Japanese, Korean, and Chinese (conversational). | Greencastle, IN  BA expected in 2023 |
| **WORK EXPERIENCE** | |
| **Software Developer, Coc Coc Ltd – Largest Vietnamese** [**search engine**](https://coccoc.com/home/en/)*(Spring, Jetty, MariaDB, RESTful API)*   * 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. * Shipped study quiz service that brought 100,000 new users using **concurrency** in reading and writing into **MariaDB**. * 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](https://hoctap.coccoc.com/)) * Reviewed 35+ code reviews with the total of 10,000+ lines of code. | Hanoi, Vietnam September 2020 – September 2021 |
| **Software Development Intern, DePauw Computer Science Department** *(PyTorch, Coq, Gallina, TreeLSTM)*   * 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. | Greencastle, IN  Summer 2019 |
| **PROJECTS** | |
| **Software Rasterizer** *(C++, PixMap)*   * Implemented rasterizing techniques in **C++**, recreating the OpenGL library from scratch to display 2D and 3D vector graphics onto a computer display ([GitHub](https://github.com/anhTimeLimitExceeded/cpp-rasterization)). | Greencastle, IN  Fall 2019 |
| **DePauw Rate My Professor Quick Search Chrome Extension** *(Python, jQuery, JavaScript)*   * 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](https://chrome.google.com/webstore/detail/depauw-university-rate-my/paaohihajiloonkfjmadnkjonjlhdaac/related?authuser=1) and [GitHub](https://github.com/anhTimeLimitExceeded/rmp-chromeextension)). | Greencastle, IN  Winter 2018 |
| **President, DePauw University Data Science Club** *(PyTorch, Pandas, OpenCV, NumPy, Matplotlib)*   * 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 50 in the East Central North America Regional. | Greencastle, IN  Fall 2018 – present |

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| **HOBBIES** | |
| **Interests:** Top 0.2% of the world in osu! – Rhythm-based game with over 10 million players.  Top 0.5.% of the world in Dota2 – Strategy Multiplayer game with the biggest prize pool of esports. |