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| **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, bash, SQL, Linux/Unix environments, git. | Greencastle, IN  BA expected in 2022 |
| **WORK EXPERIENCE** | |
| **Software Developer Intern/Co-op, Coc Coc Ltd – Largest Vietnamese** [**search engine**](https://coccoc.com/home/en/)*(Spring, Jetty, MariaDB)*   * Independently shipped and maintained Query Parser – a core service written in **Java** that handles 16 million queries per day 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 using **concurrency** in reading and writing into **MariaDB** that brought 100,000 new users. * 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 a 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 “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 |