# Luke (Phuoc) Do

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## Education

- **University of California: Los Angeles (Senior)** September 2019 - Graduating Jun, 2021
  Bachelor of Science: Math and Computer Science GPA: 3.6
- **Relevant Coursework:** Operating System, WebApp, Machine Learning, Data Structures and Algorithms, Software Construction, Computer Architecture, Probability and Discrete Structures

## Skills

- **Coding Languages:** C, C++, Java, Python, Unix, SQL, Javascript, TypeScript, HTML, CSS
- **Technology:** Docker, RESTful API, Git, MapReduce
  - Frontend: React.js, Redux, Angular, Flutter
  - Backend: Express.js, Node.js
  - Database: MySQL, MongoDB, Firebase

## Research & Work Experience

**QuickFits** - Software Engineer Intern June, 2020- September, 2020

- Develop a mobile app that recommends daily outfits and connect users with freelance designers
- Develop web crawler and scraping tool to find more data that increases the accuracy of ML model by 10%
- Develop a full stack ML model (training, building RESTful API) that decrease server response time by 50%
- Redesign, and test the database that boost up memory efficiency by 20%
- Frameworks: Docker, Firebase, Flutter, TensorFlow, NodeJS, MongoDB

**CommerceBytes** - Software Engineer Intern February, 2020- May, 2020

- Develop web apps that doubles the traffic for businesses
- Develop, maintain, and test user interface and user experience for more than 10 businesses
- Implement 3D objects to better visualize the product, which enhance sales by 20%
- Frameworks: Docker, Firebase, React, Redux, THREE.js, Jquery, HTML, CSS

**Vision, Cognition, Learning, and Autonomy (VCLA)** - Research Assistant March, 2020 - Current

- Develop a compiler for Deep Learning and Graph Neural Networks to simplify computations
- Enhance the performance of the pipelining process by 20% using principle system designs
- Contribute in reviewing literature, making research surveys, and writing papers
- Frameworks: Docker, CUDA, PyTorch, TensorFlow, NodeJS

## Hackathons

**Chapman Datafest Best Usage of External Data** - Data Science Hackathon April, 2019

- Apply regression to find a correlation between rugby players' sleep and collisions.
- Design a different training schedule to enhance rugby teams' performances (with provided data)
- Frameworks: numpy, matplotlib, scikit-learn, pandas, tensorflow, tableau

## Personal Projects

**Miniature WordPress** - Blog Editor Service May, 2020

- Implement a RESTful API that can handle 10000 requests per second from user
- Implement user interface for basics blogging with semantic Markdown
- Implement user login session for securely and correctly transferring data
- Framework: Angular, Node.js, MongoDB

**ShootingAI** - shooting game with Reinforcement Learning Agents March, 2019

- Implement Approximate Q-learning algorithm to train agents that can fight with user efficiently
- Implement game states by linked list, and use that to stimulate an environment to train agents
- Implement graphics, music to enhance user experience and interaction with the game
- Framework: Java, JavaApplets, Princeton Java Library