Hoang Phan

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⦿ Github: github.com/petrpan26

Skills

Languages: C++, Scala, Python, Racket, Latex, Javascript.
Technologies: Scala.js, Monix, Redux, React.js, Node.js, scikit-learn, keras, tensorflow, Bootstrap.

Experience

Oath, *Backend Engineering Intern*   **Sept - Dec 2018**
- Working on video augmenting and streaming solution for Yahoo Sports to enhance user experience.
- Building web applications that utilized computer vision using **Javascript** and **Python**

Anduin Transactions, *Software Engineering Intern*   **May - Sept 2018**
- Helped designed e-signatures features for a capital market transactions platform using **Scala**
- Launched signature template feature that improve product grade of Signature section.
- Built functional front-end components with **Scala.js**, **React.js** and **Redux** reactor.
- Wrote API and designed data schema to assist with saving and creating signatures template.

KMS Technology, *AI Software Engineering Intern*   **June - Aug 2017**
- Desgined a **Naive Bayes** resume-parsing algorithm in **Python** for a recruiting chatbot
- Trained the model with more than 10000 resumes scraping from different recuiting websites
- Applied **scikit-learn** library to classify different resume section and then used **Dynamic Programming** to optimize the text extraction

Projects

Toxic Comments Detector   **Winter 2017**
- Implemented and tested multiple model on a multi-label text classification model using **keras** and **scikit-learn**
- Reached a high accuracy by using **Ensemble Model** on **Logistic Chain Classifier** and word-embedding **Recurrent Neural Network**
- Got into top 500 of a **Kaggle** competition for the model (https://www.kaggle.com/c/jigsaw-toxic-comment-classification-challenge)

NewVietConverter   **Winter 2017**
- *https://petrpan26.github.io/NewVietConverter/*
- Self-implemented my own translation algorithm to convert Vietnamese from old format to the new one
- Designed a responsive website with **Materialize.CSS** plug in
- Scraped the dictionary data online with a **JavaScript** script

Whisper   **Winter 2017**
- *https://aqueous-brook-57134.herokuapp.com/*
- Used **socket.io** to reimplement a server-side multi-room chat platform and applied **express.js** for routing
- Deployed using **Heroku**

Awards and Honours

Silver medal *in Asia Pacific Informatics Olympiad*
- Placed 2nd in my country and 35th out of 164 students in an coding competition of more than 30 countries

15th place *in ACM-ICPC Vietnam National Contest*
- Placed 15th out of 180 collegiate team in an ACM-ICPC coding contest

Best Machine Learning App *in Hack the Valley 2018*
- Created a prototype for Fruitify, which is a image detection app that detect fruits and suggest smoothie recipe
- Utilized a image detection library to write API for the client to detect and hosted on an AWS P3 instance

2nd Place *in Communitech Code To Win Final 2018*
- Received a perfect score and placed second in time in an algorithmic contest for students from Canadian university

Education

Candidate for Bachelor of Computer Science *University of Waterloo*   **2017 — 2022 (expected)**
Relevant courses: Functional Programming (Advanced), Algorithm Design and Data Structure (Advanced)