

Duc Thuan Chu

Student

Skills

Experience

Duc Thuan Chu

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<https://thuandchu-portfolio.herokuapp.com>

Desired position: Internship, Web Development, Data Analysis, Database, Software Engineer, Research, Education.

Solid background in: Data Structures and Algorithms, Database Theory.

Intermediate level: Javascript, Python, D3.js, MongoDB, NodeJS, Java, SQL, UNIX Commands, Source Control.

Beginner Level: JS Frameworks (Angular 2, Knockout), Anaconda, PHP, ASP.NET Core, Machine Learning.

Data61, CSIRO / Research student

Nov 2017 - Nov 2017, Sydney, Australia

Supervisor: Dr Jianlong Zhou

Topic: Visualization of ML Performance Experiment

- ML model performance comparison with visualizations (feature combination comparison and ML algorithm comparison)
- Conduct User Study
- Visualization tools: Vertical Group Bar Chart, Horizontal Bar Chart, Line Chart, Radar Chart, Spiral Chart

<https://photos.app.goo.gl/xdVjaa3oEflmU4Fq1>

Truui / Software Technician, R&D

March 2017 - Nov 2017, Brisbane, Australia

Casual job. Working mainly as R&D.

- Customize the pivotable.js by Nicolas Kruchten.
- Choose and implement visualization tool (Sunburst) for hierarchical data like Federal Budget:

<http://qld.govspend.info/>

UQ Institute for Teaching and Learning Innovation

Winter Research Scholar

June 2017 - July 2017, St Lucia, Brisbane, Australia

Supervisor: Dr Aneesha Bakharia and Dr Hassan Khosravi.

Learning Analytics for UQx Massive Open Online Courses. Using machine learning algorithms to have a better understanding about learner's behaviours taking online courses.

- Technologies used: Python notebook, scikit-learn, numpy,

matplotlib.

- Preprocessing data from clickstream logs in Edx, using MongoDB.
- Learning new machine learning algorithms: building NxM feature matrix, PCA/t-SNE, Kmean, Elbow, Silhouette Coefficient.
- Adapting new algorithms and approaching: getting insight from a “session level”, analyzing sequence of actions, sequence mining and clustering (not finished).

Self-learning projects

- Trello’s clone, Van Emde Boas tree, Kd tree, E-commerce website
- <https://thuandchu-portfolio.herokuapp.com/>

Education

University of Queensland/ Bachelor of Computer Science

Feb 2016 - Current, Brisbane, Australia

GPA: 6.688 / 7.0

Le Hong Phong High School for the gifted/ Computer Science

2012 - 2015, Ho Chi Minh city, Vietnam

GPA: 8.6 / 10.0

Awards

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- Winter Research Scholar - Institute for Teaching and Learning Innovation, University of Queensland
 - Dean's Commendation For Academic Excellence - semester 1-2017, semester 2-2016, semester 1-2016
 - 2013-2014: Gold Medal of the Coding Contest for gifted student in Ho Chi Minh city, Vietnam
 - 2012-2013: Gold Medal of the Olympiad Coding Contest for Central-Southern of Vietnam

