CHIHENG LI

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297 College Street, Toronto, Ontario, M5T 1S2

EDUCATION

University of Toronto   2017 - Present

Candidate of Computer Science Specialist, Statistics Minor, Web Development and AI Focuses

U of T Entrance Scholarship **$7500** with **95+** admission average, CGPA: **3.67/4.0**, MGPA **4.0/4.0**

Coursework: Introduction To Machine Learning, Introduction to Database, Operating Systems, Algorithm Design, Computer Network, Software Design, Computer Organization, Probability and Statistics, Data Structures and Analysis, Advanced Calculus, Introduction to Theory of Computation, Software Tools and System Programming

TECHNICAL SKILLS

Web Development	Javascript, CSS3, HTML5, React, Bootstrap, Bulma, Node.js, Golang, PHP
Database	MongoDB, PostgreSQL, and MySQL
Google Cloud Platform	Firebase Authentication, Firebase Storage, Firebase Realtime Database
AWS	AWS Amplify, AWS EC2, Route53, and Lambda
Data Analysis	Scikit-learn, spaCy, NumPy, Pandas, Anoconda, and Jupyter Notebook
Android	LIBGDX, Android SDK, Mockito, Dagger, and Mocha

PROJECTS

Chihengli.me   June 2019

link: *https://github.com/lichiheng1998/MyPortofolio* ↗

· Wrote **REST API** endpoints with **goroutines** to access **MongoDB Atlas** server for blog posting and editing
· Designed and fulfilled the **animated** UI using **Bulma CSS library** and **Virtual DOM** provided by **ReactJS**
· Crafted mobile-first and responsive app with **media queries**, improved user experience on different sized devices
· Enhanced the security of private APIs with token-based **authentication** and **authorization** using **Auth0** Server
· Raised the performance and cost ratio with deployment to **AWS Amplify** and **EC2** Cloud Computing Platforms

NLP-Pronunciation-Evaluation-Engine   Winter 2019 - present

link: *https://github.com/lichiheng1998/NLP-Pronunciation-Evaluation-Engine* ↗

· Used **NLP/ML** algorithms and statistical models to evaluate the authentic intelligibility of English pronunciation
· Derived insertion, substitution, and deletion scores of recordings with **Pocketsphinx**'s phoneme alignment APIs
· Trained a 4×32 scale **DNN** that mapped input features to class probabilities with **Softmax** activation function

Android Game Box App   Nov 2018

link: *https://github.com/lichiheng1998/GameCenter* ↗

· Structured the project in **Model-View-Presenter architecture** to separate the concerns in presentation logic
· Implemented authentication, authorization, and data synchronization serverlessly with **Google Cloud Platform**
· Engineered the code base with the benefits of **design patterns** including factory, dependency injection, and Iterator patterns. Strictly followed the **SOLID** principle to ensure the maintainability and scalability of the App
· Performed **unit testings** and **integration testings** following the **AAA practice** with **Mockito** and **Mocha**

EXTRA-CURRICULAR

Hack the Valley3   Feb 22nd − Feb24^{th} 2019

· Learned, designed and built demo which helps people locate missing items with **ARkit** library within **48 hours**

Certificates of Course Completion in Udemy   July 1st − Sept10^{th} 2019

1. **JavaScript**: Understanding the Weird Parts   2. **NLP**: Natural Language Processing with Python