**NGUYEN TU KHAI**

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***Aspiring for challenging assignments in any field with reputed organization, where my skills are utilized to the utmost level and provide scope to explore my knowledge to serve the organization to the best of my ability and skills***

* Dedicated and highly ambitious to achieve personal as well as the organizational goals
* Confident & solutions oriented person who loves to implement best practices that consistently delivers outstanding results
* Adroit of learning new things and self motivated
* Ability to solve problems eficiently individually as well as in a team and cooperative

**Core Competency**

Problem Solving

Long span focus

Working with passion

Multitasking

Research

Networking

**Skill Set**

**Technical skills:**

* Front-end development skills with HTML5, CSS3, Javascript/jQuery, AngularJS, WinJS
* Back-end development skills with PHP, mySQL, Node.js, Hadoop
* Android development skills
* Data research to investigate properties of materials with Python and CES, Material Studio 8.0
* Computation research with C/C++, Mathematica, Mathlab
* Tools: Git, Gulp, Grunt

**Equipments Handled & Designing:**

* Fire fighting/alarm system design with drone

**Scholastic Credentials**

* **Bachelor's Degree (Materials Engineering – Industrial Software)** from Nanyang Technological University in 2016
* **High School Diploma (Mathematics and Informatics focused)** from Hanoi High School for Gifted Students (in Vietnam) in 2012

**Individual Works**

* **Project #4:** Neighborhood Map

Project Description:Application of neighbourhood map to identify popular place to visit, a search function, a listview to support browsing of all locations. Third-party APIs that provide info about each locations (StreetView images, Wikipedia articles, etc).

Technologies used: JavaScript, AJAX, Hadoop

* **Project #3:** Item Catalog

Project Description:An application that provides a list of items within different categories as well as provide a registration and authentication system. Users could post, edit and delete their own items.

Technologies used: HTML5, CSS3, JavaScript, PHP, Google App Engine, OAuth

* **Project #2:** Linux Server Configuration

Project Description:Installation of a Linux distribution on a virtual machine and prepare it to host web applications, to include installing updates, securing it from a number of attack vectors and installing/configuring web and database servers.

Technologies used: Linux Web Server

* **Project #1:** Building Android Applications

Project Description:Building a Weather Forecast App and a News Notice App that informs the latest news about US Election 2016.

Technologies used: Java, Android Studio

**Internships**

* **Project:** Yielded grain size distribution from nucleation and growth

Organization: Agency for Science, Technology and Research (A\*STAR), Singapore

Role: Programmer

Project Description:The main objective is to improve the grain nucleation model with new calculations & to optimize the simulation model.

Technologies used: C/C++, Mathlab and Mathematica

**Academic Projects**

* **Project #3:** Simulation of Sulfur network growth on transition metals catalyst

Role: Researcher

Duration: 1 year

Technologies used: Mathlab, Mathematica, Python, Material Studio 8.0, CES, VMD

**Responsibilities:**

* Research on the algorithm to build the simulation model
* Performing simulation reactions between sulfur nano-particles and different types of metals nano-particles
* Data processing the chemical reactions & results
* Predict the chemical reaction mechanism
* **Project #2:** Food safety testing chip Application (in progress)

Role: Developer

Technologies used: Mathlab, Android, Nanotechnology

**Responsibilities:**

* Contribute to design, produce toxic detection paper strip & building software to read the data
* Building Android App to read the information from the testing chip
* **Project #1:** Data processing of simulation experiment

Role: Developer / Research Assistant

Technologies used: Python

**Responsibilities:**

* Using Python to process, extract and arrange data of the materials molecular structures.

**Extramural Accolades**

* Secured Highest CGPA in High school Diploma
* Achieved CN Yang-ASEAN scholarship in the Bachelors Degree among 50 students per year

**Personal Dossier**

* Date of Birth: 25 October 1994
* Languages known: English, Vietnamese
* Passport No & Validity: B4578329 & 05/10/2020
* Address: 30 Nanyang Link 37-1-703
* Location Preference: Singapore (637717)

**(NGUYEN TU KHAI)**