NGUYEN TU KHAI

Email Id: ntukhai@gmail.com | LinkedIn: sg.linkedin.com/in/tukhai
Github: https://github.com/tukhai | Phone: 91 228 258

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
- Adept at working in high pressure environments and self motivated
- Ability to solve problems eficiently individually as well as in a team and cooperative

Core Competency

Problem Solving	Multitasking
Long Span Focus	Research
Working with Passion	Networking

Skill Set

Technical skills:

- Front-end development skills with HTML5, CSS3, Javascript/jQuery, KnockoutJS
- Back-end development skills with Python, PHP, mySQL, Node.js, PostgreSQL, SQLite
- 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, Vagrant, Grunt

Scholastic Credentials

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

Individual Works

- **Project #4:** Neighborhood Map **(currently working)**
  Project Description: Application featuring a map of neighborhood. Functions including: map markers to identify popular locations or place to visit, a search function to easily discover these locations, and a listview to support simple browsing of all locations. Implementing third-party APIs that provide additional information about each of these locations (such as StreetView images, Wikipedia articles, etc).
  Technologies used: JavaScript, AJAX, MVC model: KnockoutJS

- **Project #3:** Item Catalog **(currently working)**
  Project Description: An application that provides a list of items within different categories as well as provide a user registration and authentication system. Registered users will have the ability to post, edit and delete their own items.
  Technologies used: Google App Engine, SQLAlchemy, SQLite, ORM (Object Relational Mapping), Python Flask

- **Project #2:** Tournament Results
  Project Description: Develop a database schema to store the game matches between players in Swiss system. Write code to query this data and determine the winners of various games.
  Technologies used: Vagrant, VirtualBox, Ubuntu, PostgreSQL, Python

- **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 and Part-time Works

- **Project #3:** 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

- **Project #2:** Building Food Ordering Website **(currently working)**
  Organization: Ultimate Fit Ltd
  Role: Web developer
  Project Description: Developing Ecommcer Website with Order Schedule, Payment System, Google Login System, etc.
  Technologies used: Python Django, deployed with Microsoft Azure, Google Oauth

- **Project #1:** Building Website for Non-profit Organization **(currently working)**
  Organization: Society of Interdisciplinary Research (SOIREE)
  Role: Web developer
  Project Description: Developing Website with Login, Filter Query function, etc..
  Technologies used: Python Flask, Google Cloud Computing

Academic Projects

- **Project #2:** Simulation of Sulfur network growth on transition metals catalyst
  Role: Researcher
  Duration: 1 year
  Technologies used: Mathlab, Python, Material Studio 8.0
  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

- **Project #1:** Data processing of simulation experiment
  Role: Developer / Research Assistant
  Duration: 4 months
  Technologies used: Python
  Responsibilities:
  - ✓ Using Python to process, extract and arrange data.

Extramural Accolades

- Secured Highest CGPA in class 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: 50 Nanyang Walk 16C-02-12, Singapore 639929
- Location Preference: Singapore

(NGUYEN TU KHAI)