Xiaohua Cai

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SKILLS

Languages & Frameworks: HTML/CSS/SASS, JavaScript, React, Angular, TypeScript, Node.js, Express, Next.js, Python, PHP, Laravel,

Visual Basic 6.0, Material UI, Bootstrap, ¡Query

Systems & Database: PostgreSQL, MySQL, GraphQL, MongoDB, Git/Github, Heroku, Netlify, Docker

Software Architecture: RESTful API, MVC

EDUCATION

Master of Science in Computer Science, Georgia Institute of Technology

September 2022-December 2025

. Completed Courses: GPA 4.0/4.0

Front-End Web Developer NanoDegree, Udacity

December 2020- March 2021

2013-2014

Master of Science in Bioresource Technology, University of Alberta, GPA 3.7/4.0

September 2017- December 2018

Bachelor of Engineering in Biotechnology, Fujian Agriculture and Forestry University, China, GPA3.7/4.0 September 2013- June 2017 . Studied at the University of Alberta as a visiting student from 2016 to 2017

Awards:

. Awarded by the Chinese State Scholarship (CSC) program to support students with exceptional academic achievements to study abroad for one academic year. (value: \$17,000 CAD). Awarded with Third-Class Excellent Academic Scholarship 2015-2016

Awarded with China National Scholarship. Second-Class Excellent Academic Scholarship 2014-2015

First-Class Excellent Academic Scholarship. Valued as a merit student. Received a second-prize of debate competition

WORK EXPERIENCE

Full Stack Developer December 2022 - Present

Affinity Bridge Inc.

- . Design and implemented responsive front-end features using React.js, TypeScript, resulting in improved user experience and overall performance
- Built internal/client projects using Next.js and implemented authentication by integrating NextAuth.js
- Engineered RESTful APIs in PHP, optimizing data management by building efficient SQL queries for CRUD operations in MySQL database

Full Stack Developer

January 2022 - December 2022

AMI RockChain Inc.

- . Built front end features using Angular, TypeScript and Nebular UI library according to the Figma design
- . Created RESTful APIs in PHP Laravel Framework and implemented CRUD operations to read, create, update and delete data
- . Generated migration and set up relational data models
- . Built queries to retrieve data from PostgreSQL database
- . Adapted Model-View-Controller (MVC) pattern to develop web applications
- Built web mapping applications using Leaflet library and Google map API
- . Managed subscribed members using MailChimp API
- . Developed a graph tool using Echarts Library for user entering data into table to automatically generate charts

Full Stack Developer (Contract)

September 2021 - January 2022

Explorer Hop

Project 1: Internal used app

- . Built front end features using React.js, Material UI, TypeScript
- Built RESTful API and backend logics with Node.js Express, PostgreSQL
- . Worked closely with the designer to implement web app user interfaces

Project 2: Shopify App

- . Built Shopify admin app frontend features using React.js, Shopify App Bridge and Polaris components
- . Implemented queries to update, retrieve data from Shopify GraphQL API
- . Implemented webhooks into app to notify the app when user create a product order

Research and Development Scientist

January 2019- September 2021

SBI BioEnergy Inc.

- Calculated mass balance for 10+ lab-scale reactors through Visual Basic Programming
- Applied software applications to automatically control various chemical reaction processes.
- Analyzed data, tabulate and present data to the process and catalyst development team on regular basis
- . Developed new analytical methods as required to analyze and access properties of catalyst and biofuel product samples

CODING PROJECTS

Full Stack Chat App <u>Live Page</u> <u>Repository</u>

April 2021

Full Stack Library App Live Page Repository

May 2021

An MVC pattern-based application. Applied MongoDB, NoSQL. Used EJS view engine to render pages, it allows users to add, search, update information.

Front-end: CSS Back-end: Node.js, Express, MongoDB, Mongoose, EJS Deployment: Heroku

Travel APP <u>Demo</u> <u>Repository</u>

March 2021

A weather forecasting application. Data retrieved from three APIs: Pixabay API to display an image of the location entered, GeoNames API to retrieve coordinates, WeatherBit API to fetch weather data.

Front-end: HTML CSS Back-end: Node.js, Express

Loan Repayment Calculator Mobile App Java & Android Studio Repository

July 2021

Full Stack Feedback App <u>Demo</u> <u>Repository</u>

May 2021

Front-end: HTML, CSS Back-end: Python Flask, PostgreSQL, maitrap.io

User Management Systems Repository

May 2021

Applied MongoDB to update and delete user information, used EJS view engine to render pages.

Front-end: CSS Back-end: Node.js, Express, MongoDB, Mongoose, EJS

Github Finder

Live Page Repository

April 2021

This application allows users to search Github account profiles and Bios through retrieving data from the Github API.

Front-end: React functional components, Hooks & Context Deployment: Netlify

Landing page | HTML | CSS | JavaScript Live Page Repository

January 2021

TinDog Web Application | Bootstrap | HTML | CSS | Live Page

ive Page Repository

February 2021

Restaurant Website | Bootstrap 4 | HTML | CSS | iQuery

Repository

June 2021

Completed Certificate: Provincial Computer Rank Examination in Information Technology

Computer Science Course Completed	Relevancy	Grade
Fundamentals of Information Technology	Data Structure and Algorithm, Fundamental concepts in C.S.	80/100
Experiment for Information Technology Foundation	Introduction to SQL, Database Systems, Intro to software engineering, hardware systems and operation system	98/100
Visual Basic Programming	Visual Basic 6.0	78/100
EDPY 500 Introduction to Data Analysis in Educational Research	Sampling distributions and the central limit theorem, hypothesis test	A

Online Computer Science Course Completed	Relevancy	Grade
Introduction to Python Programming (through Coursera)	Python, data structure	pass
Managing Big Data with MySQL (through Coursera)	MySQL Relational Databases	pass
Front End Web Developer Nanodegree (Udacity)	HTML, CSS, JavaScript	pass
Front-End Web UI Frameworks and Tools: Bootstrap 4	HTML, CSS, JavaScript, Bootstrap 4	pass

RESEARCH PROJECT EXPERIENCE

Graduate Capstone Project

University of Alberta

May 2018- November 2018

- . Synthesized and characterized canola oil amphiphilic block copolymers as nano drug carriers.
- . Analyzed data using Microsoft Excel & plotted images using Adobe Illustrator software & graphed data using GraphPad Prism7 Delivered professional presentations and submitted a fifty-page written scientific research paper

Undergraduate Capstone Project

Fujian Agriculture and Forestry University

January 2016- July 2016

Conducted scientific research. An author of a published scientific research paper.

Publication URL: https://daneshyari.com/article/preview/8881478.pdf