Quoc Phong Dang

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EDUCATION

Dickinson College, *Carlisle, PA*   Jan 2021 - Dec 2024
*Bachelor of Science in **Computer Science***
Relevant Courses: Data Structure and Algorithm, Principles of OOP, Computing Abstraction and Architecture, Computability and Complexity, Database System, Tools and Techniques for Software Development, Introduction into Data Science, Data Mining, Computer Networking, Analysis of Algorithms, Parallel Computing
Dean's List - All Semester

SKILLS

Programming Language: Python, Java (Proficient), JavaScript, Scala, R, Bash, SQL, C++/C
Framework/Tool: Django, Flask, Express, Nodejs, Vue, JQuery, MongoDB, PostgreSQL, MongoDB, Numpy, Pandas, Pytorch, Scikit-learn, OpenCV, Cuda, OpenMP, MPI
Others: AWS, Docker, Linux, Git, Kafka, Hadoop, Spark

EXPERIENCE

Research Assistant - Dickinson College, *Carlisle, PA*   Jan 2021 - Present
- Working with a professor on his research on the salaries of professors across the US Constitution and the impact of the actions each poker player takes.
- Develop a program to scrape and clean salary data from government websites using Python, Selenium and Webdriver, so that professors can build analysis models for their research.
- Incorporate bot evasion algorithm into existing data-scraping program to evade Cloudflare's bot detection system using Python and undetected_chromedriver, which results in 20% improvement in speed.
- Process, generate and gather data for poker research from offline videos using OpenCV. Then, further fasten the process by integrating parallel computing using CUDA, which improves efficiency by 800%.

Software Developer Intern - Codluck Technology, *Hanoi, Vietnam*   May 2023 - Aug 2023
- Working with a senior developer responsible for managing employees' information along with the DevOps team to deploy customer products for testing and shipping.
- Developed and upgraded company's employees Enterprise resource planning (ERP) software using Odoo, an Open-Source Software written in Python. Inherited, and created different modules to improve efficiency in project management.
- Creating a module to keep track of employees' projects and their responsibilities for faster lookups results in improved efficiency in productivity by 20%, as well as management tasks.
- Worked with DevOps team to develop Virtual Private Cloud (VPC**)** architecture on AWS for deploying, maintaining company security, provide backups and recovery.

PROJECTS

Chat App (JS, HTML, CSS, Nodejs, MongoDB) [https://github.com/phong260702/ChatApp]
- A full stack real-time application Chat website using Socket.IO and Node.js.
- Deploy on AWS EC2 using personal VPC design so that the app can be accessed online worldwide.

Users' Info RESTFUL API (JavaScript) [https://github.com/phong260702/Rest-API]
- Working with a team of 4 to develop a simple Schedule Manager App.
- Built a REST API using Node.JS, Express, and MongoDB to help applications communicate with backend servers, allowing the app to get users' information from the database.
- Added Authentication and Authorization processes using JWT token and encrypted passwords to improve security.

Personal Portfolio Website (HTML, CSS, JavaScript) [https://github.com/phong260702/1stPortfolio_web]
- My personal portfolio website was created using HTML, CSS, and JavaScript.