Qihuan He

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Software engineer and web developer – with experience in dynamic website design, database creation, data analysis and reporting, machine learning and cross-platform application development and deployment.

Education

Northeastern University, Silicon Valley Campus   *2024(expected)*

Master In Data Analytics **GPA 3.9/4.0**

Hebei Normal University of Science and Technology, China   *2008*

Bachelor Of Information Management and Information Systems

Technical Skills

- **Programming Languages:** Python, HTML, CSS, JavaScript, SQL, NoSQL, R
- **Framework & Libraries**: Django, NodeJS, ReactJS, Pandas, MATLAB, BeautifulSoup
- **Technical Tools:** AWS, Git, Visual Studio Code, Machine Learning, MySQL, MongoDB, Tableau

Projects experiences

J.P. Morgan Software Engineering virtual experience   *Python /JavaScript/React.js/Git*

- Achieved integration of real-time financial data into the web application for trading analysis and stock price monitoring, by utilizing **Python** for data processing and **JavaScript** for seamless data presentation.
- Revamped the web application to automatically fetching live data from server and continuously updating dashboard.
- Created dynamic data visualization using **React.JS** to monitor stock prices over time for further analysis.

E-commerce retail web application   *Python/Django/AWS/JavaScript*

- Designed a dynamic online shopping website for user to purchase fashion products using **HTML**, **CSS**, and **JavaScript**.
- Integrated front-end and back-end components. Implemented user authentication, registration, and login. Managed product catalog, shopping cart, shipping, and third-party payment integration.
- Utilized **Django** ORM for seamless database interaction on **AWS** RDS and deployed server to **AWS EC2**.

Yelp Camp full-stack web application   *HTML/CSS/JavaScript/ NodeJs/Express/MongoDB/Git*

- Designed a comprehensive Full-Stack Yelp Camp application for user to review and commendation campsite.
- Built the application's back-end using **Node.js** and **Express.js**. Created RESTful routes for user interactions, data management.
- Utilized **MongoDB** to develop data models for campgrounds and user accounts, ensuring efficient data storage and retrieval.
- Utilized **Git** for version control, enabling effective tracking of code changes.

Work Experience

Culligan Water Treatment (eCommerce Operation Manager)   *Sep 2018- June 2020*

- Conducted industry data collection by developing **Python** scripts to crawl web data, improving **50%** work efficiency.
- Utilized **SQL** and **Python** to conduct industry product analysis for product development, and identified opportunities for product innovation. One recommended new product launch contributed to **40%** annual sales growth.
- Extracted, manipulated, and analyzed web data for performance analysis (traffic, click through rate, conversion etc) to get actionable insights. Utilized online customer feedback data to improve sales conversion rate by 25%.
- Developed **linear regression model** to predict campaign sales, achieving accuracy rate of 90%.

BRITA (eCommerce specialist)   *Mar 2014- Mar 2018*

- Developed dashboard leveraging **Tableau** to find actionable insights to drive sales, introducing CRM improved the repurchase rate by 23% in measurable sales.
- Performed exploratory **Web data analysis** towards industry trend and user behavior, translating data into strategy to trigger business growth, the adjustment of product portfolio based on product analysis increased 33% sales growth.

ExportNow (eCommerce Store Manager)   *July 2012- Feb 2014*

- Supported eCommerce database system maintenance, provided insightful data strategies and valid forecasting which drove down supply chain disruption by 20%.
- Web traffic data and consumer journey analysis, made informed decisions to improve performance of marketing campaigns.

Asia inflatables Limited (Export Sales Manager)   *Aug 2008- May2012*

Sales development: working with international customers through the Alibaba Platform, developed customers from 36+ counties.

- Order flow management: coordinating order deliveries and shipments for all clients