ZHIHAO CAO

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OBJECTIVE

Enriched skills in Java programming and Database development. Profound knowledge in Internet and Security. Seeking Software/Web Application/Database Development, and Network/Security Analyst/Architect part-time position on Oct. 2016 to May 2017, and full-time position after May 2017.

EDUCATION

Indiana University-Purdue University Indianapolis (IUPUI)

Master of Science in Computer Science   Aug. 2015 – May 2017

- Focus on: Software Development, Database Development, Internet Architecture, Internet Security

Bachelor of Science in Computer Science, GPA: 3.5/4.00   Aug. 2011 – May 2015

SKILLS

Programming Language: Java, C++, Python, C#, SQL (Proficient in JAVA)
Web programming: HTML, CSS, JSON, JAVASCRIPT, PHP, ASP.Net

WORK EXPERIENCE

Center for Computational Biology & Bioinformatics - IUPUI   Indianapolis, IN
Database developer   Jan. 2015 – May 2016

- Collected, cleaned, and formatted complex/raw data to fit into database (over 30,000 DNA data)
- Designed database scheme (3NF/BCNF)
- Database maintenance

Office for Liberal Arts department of IUPUI   Indianapolis, IN
Office Assistant   Jan. 2012 – May 2013

- Digitalized paper document, classified document, and stored into database.

ACADEMIC EXPERIENCE

In-Flight Entertainment System, IUPUI Prof. John Gersting   Jan. 2016 – May 2016

- Developed BCNF database system using Microsoft SQL Server (SSMS)
- Designed SQL functions to serve multiple use cases of Entertainment System

Brain Node Network Pathway Visualization, IUPUI Prof. Fang Shiaofen   Jan. 2016 – May 2016

- Developed 255x255 nodes dynamic visualization using D3 (over 1,000 sample)
- Study brain node differences/characteristics by visualization of raw node data

Online Shopping System, IUPUI Dr. Ruchika Malhotra   Jan. 2016 – May 2016

- Developed front-end and back-end of the C2C shopping system using PHP
- Object-Oriented Analysis and Design (IEEE STD 830-1998 SRS)

Wireless Sensor Network Code Disseminator, IUPUI Prof. Yao Liang   Aug. 2015 – Dec. 2015

- Developed front-end of a wireless code updater for a wireless sensor network. (JAVA)
- Designed a database and hook up to the program (SQLite)

Internet Data Transfer Protocol, IUPUI Prof. Yao Liang   Aug. 2014 – Dec. 2014

- Developed an Internet data transfer protocol using Python.
- Designed a Sliding Window model to transit packets reliably.

Apartment Database Management System, IUPUI Lingma Lu Acheson   Jan. 2014 – May 2014

- Designed a Relational database using Oracle SQL Developer.
- Developed a front end control interface for the database using JAVA.