Julia Huang

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EDUCATION

Rensselaer Polytechnic Institute Master of Science in Information Technology

Trov, NY

Courses: Software Design & Documentation, Database, Data Analytics, Open Source Software

Aug 2019 - May 2021

Email: huangs8@rpi.edu

Wheaton College Bachelor of Arts in Mathematics and Economics

Norton, MA

Courses: Data Structures, Algorithms, Operating Systems, Linear Algebra, Discrete Math

Aug 2011 - May 2015

EXPERIENCE

Rensselaer Polytechnic Institute

Trov, NY

Lead TA: Computer Science I

Aug 2020 - Present

- Head TA: Supervise as an instructor liaison to 63 graduate TAs and undergraduate mentors to optimize learning opportunities for 600+ students
- **Discussion Board**: Answer technical and logistical questions through the technical forum on a daily basis for programming assignments and labs to ensure student success
- Labs: Lead weekly lab sessions of 60 students; explain weekly lab requirements, answer student questions, and evaluate students' lab work
- Manage Grading: Oversee the grading procedures by working with TAs; maintain consistent, fair, and reliable grading; make sure grades are published by deadline

Grand Circle Corporation

Boston, MA

Web Content Manager

Dec 2015 - Nov 2018

- Landing Pages: Designed and oversaw over 200 webpages using HTML, CSS and JavaScript for Grand Circle Corporation on a monthly basis while maintaining the current web content architecture by having daily scrum meetings with team members and weekly marketing meetings with account and product managers
- Sitecore CMS: Created at least one marketing page per week that required logical understanding of the Sitecore content management tree system to ensure impactful web page experience under strict deadlines
- Interdepartmental Collaboration: Worked with the quality assurance team, account management team, and product management team on a daily basis to coordinate daily site requests and participated in major website projects and marketing campaigns

Lexomics Data Mining Group

Norton, MA

Co-developer

May 2015 - Dec 2015

- Software Engineer: Co-developed Lexomics (funded by NEH Grant), an open-source online suite of tools for analyzing and visualizing experimental results from digitized texts and corpora
- Unsupervised Learning: Used Scikit-learn Python modules to conduct unsupervised learning methods (hierarchical cluster analysis), added similarity scores, and conducted extensive testing with texts from multiple languages
- QA Testing: Tested and analyzed results from large medieval English archival material in both front-end and back-end coding and added the Unicode-based dictionary to test the suite folder for future software testing purposes

PROJECTS

- Off-Campus Housing Finder: Project lead for open source web project built with React.js, Node.js, MongoDB created for upper-class university students to find off-campus housing
- **CPU Scheduling Simulator**: Wrote a CPU simulator in C++, using OOP principles and the Round Robin scheduling algorithm which tested how different parameters affect the performance of an operating system and summarized the simulator results in a graphics report
- Full Stack Web Password Generator: Constructed a program using PHP on the server side to generate a maximum 9-character password on the web comparable to Apple products password generator; users input the desired number of characters and the program will generate an appropriate password, with the option of adding symbols or numbers as well as letters

Programming Skills & Languages

• Languages: Python, C++, Java, SQL, PHP, HTML, CSS Technologies: React, Flask, Sitecore CMS, LATEX