Bingxu Hu

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Undergraduate Student majoring in Computer Science at University of Wisconsin-Madison who is seeking internship of software engineer or algorithm engineer.

EDUCATION

University of Wisconsin-Madison   **Madison, WI**

B.S. in Computer Science, GPA: 3.906/4.0   *05/2024*

PROFESSIONAL EXPREIENCE

RESEARCH ASSISTANT,   **Wenzhou, China**

Meta-heuristic Algorithms   *June 2021–August 2021*

- Understanding the basic meta-heuristic algorithms such as Simulated Annealing Algorithm (SA) and Genetic Algorithm (GA), Hill Climbing, Variable Neighborhood Search (VNS) and Tabu Search (TS). Implementing these algorithms in Java to solve Traveling salesmen problem (TSP).
- Responsible for designing and implementing the hybrid algorithm: GA-VNS and writing the corresponding part of academic essay.
- Academic essay *A Non-Dominated Sorting Memetic Algorithm for the Multi-Objective TSP* accepted by conference ACAI 2021.

PEER MENTOR,   **Wenzhou, China**

Course CPS 3440 in Wenzhou-Kean University   *March 2021–June 2021*

- Taking the and organize the class notes, posting on the BlackBoard (online teaching platform) for students' reference.
- Answering students' questions relating to the course via WeChat or E-mail or make a face to face appointment for guidance.
- Forming the reviewing sections before midterm and final exams for students.
- Responsible for grading simple questions (such as multiple choice question) in the examination and homework.

SELECTED PROJECTS

PERSONAL WEBSITE - bingxuhu.com   *December 2021–Present*

- Virtual Machine powered by Google Cloud Platform, DNS provided by AWS.
- Deploy and backend using Python flask, Apache and wsgi.
- Frontend designed using HTML/Javascript/CSS, ready to upgrade to React.js.

ADDITIONAL SKILLS

LANGUAGES
- Java, Python, HTML, CSS, Javascript, SQL, C

TECHNOLOGIES
- Three.js, flask, MySQL, Spring, Spring Boot, Spring MVC, React.js, Maven, Git, Linux, Visual Studio Code, IDEA

MATHEMATICS
- Linear algebra, Multi variable calculus, Linear Optimization