# George Wang

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## Education

- **University of Washington** — Seattle, USA
  *B.S. Computer Science; GPA: 3.8* — *Sept 2019 - Exp. Jun 2023*

  **Selected Coursework:** Data Structure and Algorithms, Systems programming, Database Systems, Hardware Software interface, Web Programming, Foundations of computing

## Leadership

- **Associated Students of the University of Washington** — Seattle, USA
  *Student Senator* — *July 2020 - June 2021*
  - Participated in University legislation council and vote for resolutions
  - Participated the hall caucus meeting and proposed new resolutions

## Achievement

- **Competitions**
  - University of Waterloo Euclid Mathematics competition: Silver award
  - Duke Math Meet: Honorable mention
- **Honors**
  - Dean's list: Fall 2022
  - Annual Dean's list: 2020-2021

## Projects

- **Game Manager**
  *Python, HTML, Flask*
  - Developed a Web app that fetches games update and relevant twitch stream by analysing user's steam account
  - Implemented SteamStorefront API, Twitch API and Steam API for the website's functionality
  - Implemented Flask template for more concise coding and reduce redundancy
  - Designed the visual elements that interacts with user's inputs
- **Image Processor**
  *Java*
  - Developed a Image processing app that is capable of resizing input picture image files using the Seam-carving image resizing technique
  - Implemented directed edge-weighted graph, adjacency list as key data structures
  - Implemented algorithms including Topological sort, Dijkstra's algorithm
  - Implemented Dynamic Programming as the programming method to optimize the run-time
- **Memory Allocator**
  *C*
  - Engineered a dynamic memory allocator that is capable of allocating, reallocating and freeing allocated blocks on the heap
  - Mananged the inner structure of heap blocks including boundary tags, size tags
  - Implemented a node structure in heap blocks to link up all the allocated blocks

## Skills

- **Language skills**: Chinese, English, German
- **Programming Languages**: Python, Java, C/C++, JavaScript, JSON, HTML, CSS, SQL
- **Framework and Tools**: Web (JQuery, Cookie, Canvas, Node.js, Flask), Cloud (AWS, Azure), Database (MySQL, SQL++, SQLite, Apache spark), Misc (Git, Linux)