

AUDREY DEIGAARD

713-203-3804 ◊ aud@rice.edu

EDUCATION

Rice University - Houston, TX

August 2019 - Present

Bachelor of Science in Computer Science

Department of Engineering

High School for the Performing and Visual Arts - Houston, TX

August 2015 - June 2019

Instrumental Department, Principal Harpist

GPA: 4.44/5

PROJECTS

SARS-CoV-2 Computational Biology Research, Treangen Lab, Rice University

Part of the diagnostics team focused on creating an effective test for SARS-CoV-2.

Computer Science/Electrical Engineering Research Project, Rice University

The project aims at developing an augmented reality app that will enable diabetes patients to record changes in blood sugar levels and associate these changes with food they ate via a food journaling format.

Introduction to Engineering Design Project, Rice University

- Collaborated with the Children's Museum of Houston to promote problem-solving and creativity
- Designed and built an exhibit that allowed museum visitors to explore engineering by creating their own tools out of low-fidelity objects in order to solve the puzzles
- Shared updates on our project in the form of technical memos and presentations

TECHNICAL SKILLS

- **Programming Languages:** Python, pandas, L^AT_EX, C, HTML, C++, Javascript
- **Cloud:** Google Compute, Kubernetes (learning), Terraform (learning)
- **Languages:** English (native), Japanese (JLPT N3), French (intermediate), Tibetan (beginner)
- **Software:** Microsoft Office, Google Docs, Adobe Photoshop CC, Adobe Illustrator, Git

WORK EXPERIENCE

OEDK Engineering Design Mentor

January 2021 - Present

Houston, Texas

Design Mentor

Mentoring a team of ENGI 120 students as they follow the steps of the design process to design and create a sand filtration model.

地域ブランディング研究所

June 2019 - July 2019

Tokyo, Japan

Intern

A company whose goal is to work with cities in Japan to identify their best attributes in order to accurately brand the city and market it, increasing tourism in the area and stimulating the local economy.

- Researched different client demographics
- Shared international perspective on travel interests
- Graphic design for presentations, newsletters, and websites
- Translated documents from Japanese to English and from English to Japanese
- Led scheduling itinerary development for B2B travel trade show in Bangkok, Thailand

RELEVANT COURSEWORK

COMP 321, Introduction to Computer Systems - Study of the underlying aspects of computer systems that have an impact on application programming. The major topics include linking, exceptions, memory allocation and management, networking, and concurrency.

COMP 322, Fundamentals of Parallel Programming - Learning of fundamentals of parallel programming and parallel algorithms, by following a pedagogic approach that exposes students to the intellectual challenges in parallel software without enmeshing them in the jargon and lower-level details of today's parallel systems.

COMP 382, Reasoning About Algorithms - Extensive study of elementary logic, analysis of the correctness and efficiency of algorithms, and formal computational models like finite automata and Turing machines. Also included new algorithm design techniques.

ACADEMIC ACHIEVEMENTS

Japan Society Junior Fellow, July 2018 - Present

Selected as one of ten junior fellows to travel to Aizu Wakamatsu to stay with a host family and attend high school, visit Iwaki to learn about the March 11 earthquake and nuclear meltdown, and Tokyo to visit companies and NPOs including Sony, Safecast, and Ashinaga.

EXTRA-CURRICULAR ACTIVITIES

- **KTRU Radio**, Spring 2020 - Present
- **Rice University Campanile Orchestra**, Principal Harpist, Fall 2019 - Present

PERSONAL TRAITS

- Highly motivated and eager to learn new skills
- Strong interest in and affinity for foreign languages
- Interested in developing useful solutions to real-world problems to improve people's lives
- Creatively integrate aesthetics and function