

# Chloe Soh-Young Park

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## EDUCATION

### Rice University | George R. Brown School of Engineering

Bachelor of Science in Computer Science | GPA: 3.87/4.00

Relevant Courses: Computational Thinking, Algorithmic Thinking, Linear Algebra, Sciences of AI

### National Cathedral School (NCS)

High School Diploma | Member of Cum Laude Society | GPA: 4.00/4.00 (Unweighted)

Houston, TX

August 2023 – June 2027

Washington D.C.

September 2017 – June 2023

## TECHNICAL SKILLS, CERTIFICATIONS, AND AWARDS

**Skills:** JAVA, Python, C#, SQL, JavaScript, Typescript, Unity, React.js, Node.js

**Certification Courses:** Unity Certified User – Programmer

**Awards:** NCS Computer Science Award, D.C. CyberPatriot Champions, Valedictorian

## PROJECTS

### NASA SUITS Challenge — C#, Unity, Figma

Representing Rice University as Team Daedalus, Comprised of Selected Undergraduate and Graduate Students

- Develops the **front** and **back-end** for the AR console modeled with the **C#** software engine **Unity** and **Figma** to assist NASA's Artemis crew during Extravehicular Activity (EVA)
- Crafts a Heads-Up Display (HUD) exhibiting telemetry stream data and a Umbilical Interface Assembly (UIA) Egress Procedure that successfully transitions astronauts from habitat to suit power

Houston, TX

September 2023 – Present

### Houston Ballet Nutcracker Market App — React.js, Node.js, MySQL

RiceApps Project Designed to Enhance the Nutcracker Market Experience

- Employs the **SDK MappedIn** along with **React.js** to create the **front-end** for the accessible, interactive map and website of the **300-plus** vendors present at the event
- Creates a SMS notification system with **Twilio** and **Node.js** for **100,000+** users

Houston, TX

September 2023 – Present

### Fusing South Korea's Cultural Games with the Digital World 🎮 — C#, Unity, Procreate, Blender

An Independent Study, Grounded in the Unity Platform

- Provided an accessible lens into Korean culture through an end-to-end engineering process for the **600 students** at National Cathedral School with an Asian body of less than **14%**
- Utilized **Unity** to digitize, in 2D and 3D, three traditional Korean games: Tuho, Yutnori, and Dalgona
- Incorporated self-created graphics through **Procreate** (2D) and **Blender** (3D)

Washington, DC

August 2022 – January 2023

## EXPERIENCES

### AI Research Assistant — TensorFlow, PyTorch, Pandas, SciPy

AI Research Assistant at Dr. Yamagami's Lab for the Development of Co-Adaptive Human Machine Interfaces

- Implements federated learning algorithms through **TensorFlow** and the framework **PyTorch** to optimize the closed-loop performance of a myoelectric interface
- Tests how the co-adaptation of both the user and decoder will enhance the performance of neural interfaces and analyzing the data through **Pandas** and **SciPy**

Houston, TX

January 2023 – Present

### Math Intutorly Tutor

- Educates low-income elementary school students in Math and English who experienced economic hardship, especially from the COVID-19 pandemic

Vienna, VA

August 2020 – Present

### Engage Healthcare Business Services Systems Analyst Intern – MySQL

- Stored data in self-made schemas (databases) and revised software through **Python** reconfiguration
- Primarily utilized the **MySQL** Workbench visual platform

Vienna, VA

May 2022 – August 2022

## ACTIVITIES

### RiceApps (< 5% Acceptance Rate)

Full Stack Developer

- Develops impactful web applications and software solutions for nonprofits in Houston
- Collaborates with a team of designers and coders, four hours every week, as a full stack developer

Houston, TX

September 2023 – Present

### Rice CSters

Underclassmen Rep

- Selected as one of two representatives to coordinate events and extend professional opportunities specific to underclassmen
- Fosters a tight-knit, empowering community of women who are passionate about Computer Science

Houston, TX

September 2023 – Present

### Rice Augmented Reality/Virtual Reality (AR/VR) Club

Software Lead

- Provides hands-on mentorship to students during **Unity** workshops and projects
- Oversees the entire software development process for members accepted into the **NASA Suits Challenge**

Houston, TX

September 2023 – Present