Chloe Soh-Young Park

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EDUCATION

Rice University | George R. Brown School of Engineering	**Houston, TX**
Bachelor of Science in Computer Science | GPA: 3.87/4.00	*August 2023 – June 2027*
Relevant Courses: Computational Thinking, Algorithmic Thinking, Linear Algebra, Sciences of AI	
National Cathedral School (NCS)	**Washington D.C.**
High School Diploma | Member of *Cum Laude Society* | GPA: 4.00/4.00 (Unweighted)	*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* — **Houston, TX** — *September 2023 – Present*
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 Ballet Nutcracker Market App — *React.js, Node.js, MySQL* — **Houston, TX** — *September 2023 – Present*
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

Fusing South Korea's Cultural Games with \`the Digital World ○ — *C#, Unity, Procreate, Blender* — **Washington, DC** — *August 2022 – January 2023*
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)

EXPERIENCES

AI Research Assistant — *TensorFlow, PyTorch, Pandas, SciPy* — **Houston, TX** — *January 2023 – Present*
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**

Math Intutorly Tutor — **Vienna, VA** — *August 2020 – Present*
- Educates low-income elementary school students in Math and English who experienced economic hardship, especially from the COVID-19 pandemic

Engage Healthcare Business Services Systems Analyst Intern — **Vienna, VA** — *May 2022 – August 2022*
- Stored data in self-made schemas (databases) and revised software through **Python** reconfiguration
- Primarily utilized the **MySQL** Workbench visual platform

ACTIVITIES

RiceApps (< 5% Acceptance Rate) — **Houston, TX** — *September 2023 – Present*
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

Rice CSters — **Houston, TX** — *September 2023 – Present*
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

Rice Augmented Reality/Virtual Reality (AR/VR) Club — **Houston, TX** — *September 2023 – Present*
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*