

# Sanghwa Ryu

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## PROJECTS

### Chess Game | Java Developer

- Developed comprehensive chess application with complete game logic and move validation
- Implemented user interface and game state management for seamless gameplay experience
- Tech Stack: Java

### Facial Recognition System | AI/ML Developer

- Built facial recognition application using computer vision and machine learning algorithms
- Implemented face detection and recognition capabilities with high accuracy rates
- Tech Stack: Python, Computer Vision, Machine Learning

### AI Appointment Scheduler (Chatbot) | AI Developer

- Created intelligent chatbot managing appointments through natural language processing
- Integrated database systems for appointment storage with scalable Flask backend architecture
- Tech Stack: Python, Flask, NLP

### Lexical Scanner | Systems Programming

- Implemented lexical analyzer for programming language processing with tokenization capabilities
  - Built parsing functionality demonstrating understanding of compiler design principles
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## SKILLS

Programming Languages: Java, Python, JavaScript, C++, HTML/CSS

Languages: English (fluent), Korean (native), Japanese (intermediate)

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## EDUCATION

Brigham Young University — Provo, UT

Bachelor of Science in Computer Science | Expected Graduation: April, 2026 GPA: 3.5

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## EXPERIENCE

### Utah Holiday Lighting Website *Web Developer*

- Contributed to the design and development of the Commercial Holiday Lighting webpage for Utah Holiday Lighting
- Helped implement responsive layout, content structure, and visual styling to enhance user engagement and seasonal branding Tech Stack: HTML, CSS, JavaScript, WordPress

### Sergeant, Korean Military | Republic of Korea Army

- Led logistics operations for ammunition distribution and coordinated team activities
  - Managed inventory compliance and supervised training of junior personnel
- Developed strategic resource allocation plans improving operational efficiency

