Hyesu Lee

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Programming Languages / Tools

- **Proficient in** Java, MatLab, JavaScript, PHP, HTML/CSS, Visual Studio
- **Familiar with** Python, Shell script, Git bash

Summary of Qualifications

- An attentive listener and a fast learner.
- **Fluent in** Korean and English

EDUCATION

University of Washington, Seattle

BS in Applied & Computational Mathematical Science Sept 2017 - Mar 2021 (Expected)

- Scientific Computing and Numerical Algorithms track | **GPA: 3.47**
- **Courses expected by June 2020:** Data Structure and Algorithms, Machine Learning, Data analysis
- Involved in the Society of Women Engineers (SWE), TEDxUofW - Financial Logistics

WORK EXPERIENCE

UW Computer Science & Engineering, Seattle, WA Jan - Dec 2019

Java Programming Class Teaching Assistant

- Prepare and teach a Java programming section of 20 students to help them solidify programming concept
- Assist students with questions in introductory Programming Lab
- Grade students' weekly programming assignments and exams

CL development, South Korea Jul - Sept 2019

Summer Intern

- Participate in government research to develop indoor UAV
- Analyze algorithm and back-read program for the UAV
- Bring 1 month delayed project back on schedule
- Successfully finish flight tests with final UAV design
- Lead seminar of C coding and basic programming concepts and strategies
- Participate in meetings with university research labs as a representative of CL development

UW Autonomous Flight System Lab, Seattle, WA Mar - Dec 2018

Undergraduate Researcher

- Assemble fixed-wing aircraft as a part of TRAPIS (Transponder Based Position Information System) research team to create unmanned aerial systems for UAVs (Unmanned Aerial Vehicle) to fly without GPS
- Participate in flight tests to collect data, analyze fail flights, and maintenance for UAVs

PROJECTS

Data Analysis, Seattle, WA Jan - March 2019

Undergraduate student

- Learned different methods of data analysis including Fourier transformation, Gabor transformation, Singular Value Decomposition, ML algorithms
- Worked on one or two projects on each method and summarize the project in Latex format
- Published on GitHub

Hopfield Neural Network term paper, Seattle, WA Sept - Dec 2019

Team Participant

- Research and write mathematical term paper on Hopfield Neural Network and argue its appropriate usage for Machine learning

Autonomous Plant-Sitter Robot, Seattle, WA Winter quarter 2018

Team Participant

- Construct an autonomous indoor plant caring robot to regulate shade and water intake when the soil does not meet the required moisture levels

- Arduino coding with C