

Yerim Erin Lee

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EDUCATION

The University of Texas at Austin — Austin, TX December 2021

Bachelor of Science in Computational Engineering

Overall GPA : 3.50/4.00

Relevant Coursework: Engineering Computation, Scientific Computation, Sequence, Series, and Multivariable Calculus, Differential Equations with Linear Algebra, Advanced Calculus for Application, Matrices, Probability, Low Speed Aerodynamics, Statics, Engineering Design Graphics, Software Engineering and Design, Solids, Dynamics

EXPERIENCE

Ramshorn Academic Coach Fall 2019 – Present

- Helped first-year Ramshorn students acclimate to the UT campus, achieve academic success in their engineering courses, and provide exposure to various extra-curricular opportunities
- Provided computational engineering freshmen with one-on-one tutoring, and mentoring

Math Tutor May 2017 - Present

- Led individual and group tutoring sessions and presented materials on Calculus BC, Statistics, and Geometry
- Tutored 6 students with individualized program based on their strengths and weaknesses

Cashier, MOMO Sushi — Austin, TX May 2019 - August 2019

- Developed hands on experience with talking to the customers directly
- Trained new cashiers to successfully greet customers with individual needs
- Maintained clean and orderly checkout areas and completed other general cleaning duties, such as mopping floors and emptying trash cans

ACTIVITIES & LEADERSHIP

Data Analysis with R on HPC — TACC Austin, TX February 2019

- Explored R basics using Rstudio which provided me extensive knowledge in dataframe
- Operated data analysis support in R by learning clustering analysis and classification
- Analyzed how to optimize parallelization to efficiently run on TACC resources

KESA (Korean Engineering Student Association) December 2018 – Present

- Developed a real-time Android weather application that displays both today and weekly weather forecasts
- Implemented the backend for requesting and storing various data as JSON format
- Obtained user's current location by accessing API libraries in Android SDK, Location manager and listener

Disease Propagation Modeling

December 2019

- Modeled disease propagation in a population of one million individuals with code based on a simplified SIR model
- Ran a number of simulations varying the fraction of the population that is vaccinated and the probability the disease is transmitted when a sick individual contacts a susceptible one
- investigated the vaccination percentage required for herd immunity as a function of the transmission probability

SKILLS

Programming: Java, C++, Linux, Python, Fortran, Matlab, SolidWorks, R

HONORS & AWARDS

National Math Competition(KSEA) Austin Mayor Award 2016, 2017

Women in Engineering Scholarship 2018, 2019

Active Member, Society of Women in Engineering 2018 - 2020

East Austin - helped financially underprivileged children learn math, science, and writing 2018