

SCOTT KIM

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Skills

TRANSLATOR SOFTWARE

memoQ
SDL Trados Studio
Wordfast

FLUENT LANGUAGES

English
Korean

PROGRAMMING LANGUAGES

TypeScript
Python
Java
C++
C
HTML | CSS

AP TEST SCORES

Physics C E&M - 5
Physics C Mech - 5
English Lang and Comp - 4
English Lit and Comp - 4
Psychology - 4

Experience in translating letters, websites, and miscellaneous documents from Korean to English for family and friends

Education

University of Illinois at Urbana-Champaign

Aug. 2017 - May 2020

Bachelor of Computer Science, College of Engineering

GPA: 3.61/4.0

Work Experience

Pure Storage

Summer Internship

Mountain View, CA

May 2019 - Aug. 2019

- Parallelize petabyte-scale data migration
- Single source and destination, connected by distributed machines
- Goals of fault tolerance, flash write conservation, file/hardlink consistency, load distribution
- Final result general enough to handle various distributed workloads

Pure Storage

Summer Internship

Bellevue, WA

May 2018 - Aug. 2018

- System to collect and deliver diagnostic information from FlashArray products
- Train machine learning models to forecast usage and performance
- Parallel and reactive programming techniques to account for potential failures
- Frontend development in collaboration with UI/UX team
- Backend processing with multiple databases (Cassandra, S3, MongoDB)

Activities

Chair of UIUC's Illinois Programming League

Feb. 2019 - Jan. 2020

- ICPC: A worldwide algorithmic programming contest for college students across 3,000+ universities
- Have sent a team to World Finals 12 times of past 13 years
- Organize sponsorship, recruitment, and training for the UIUC's ICPC team

Prairie Learn Development | HackIllinois 2018

Feb. 2018

- Built upon existing open-source PrairieLearn platform - an online service used by University of Illinois for online assignments
- Implemented an intuitive graphical interface that generates random boolean expressions, then allows the student to represent the expression using AND, OR, NOT gates and checks answer

Undergraduate Research: Waterdrop Coalescence

Sept. 2017 - Dec. 2017

- Spring semester research at the Energy Transportation Research Lab
- Simulate, record, and analyze the behavior of coalescing droplets on super-hydrophobic surfaces
- Created a program to model water droplets' trajectories from recorded videos
- Image processing methods: saturation thresholds and dilate & erode loops
- Found significant trends relating jumping velocity with size, viscosity, and surface energy

Projects

Block Stacking Simulator - Javascript

June 2019

- An online multiplayer game where players could collaboratively construct 3D structures with Jenga-like blocks
- Primary motivation was to create virtual "Jenga buildings" with friends
- Construction in static setting with optional physics simulation

Raytracer - C++

Apr. 2018 - May 2018

- Bare-bones raytracer capable of rendering simple .obj files
- Phong shading model to capture specular, diffuse, and ambient lighting reflections
- Polygons are organized in a Bounding Volume Hierarchy to optimize performance