



Intro to Computer Science

Full-stack Engineering



Being a Pro

Group development to AWS deployment!

Programming is a small part of system development. Your child experience full-stack development of API based single-page-application with Vue framework for the front-end and Python as the back-end with git, then set up own ubuntu system and deploy the application.

- ✓ Develop a cutting-edge full-stack application with the Vue framework and Python
- ✓ Understand group development with git like professionals
- ✓ Setup own ubuntu server on Amazon AWS and deploy the application and database

Online class via Zoom
Jan 28th - May 27^h
Thursday
3:30 – 4:30pm
No class on 2/18 and 4/8
Total of 16 classes
Fee: \$384
\$20 Early discount available
till 1/15

After this program

Your child will understand how professionals develop a system from application development to deployment and relationship between coding and Dev-Ops.

Your child experiences the following in the process.

- The cutting-edge API based single-page-application architecture
- Front-end framework, Vue framework, and Python combination with fetch API
- Group development with git and how to set up and use git
- Fundamentals of AWS and ubuntu server setting (HTTP server, Database)
- Deploy an application with git and firewall setting

Syllabus (Subject to change)

- 1) Python development environment (Anaconda)
- 2) Introduction to git
- 3) API based architecture & Single-page-application
- 4) Vue framework
- 5) Python
- 6) Fetch API and AJAX
- 7) Database
- 8) Testing
- 9) AWS account setting
- 10) Ubuntu server setting
- 11) Firewall setting
- 12) HTTP server, application server setting
- 13) Database setting
- 14) Deployment with git

Prerequisite

Your child needs to have a coding experience with Python, JavaScript, Java, C, or another code-based programming languages.

To create an AWS account, credit card information is required.

Hardware & Software requirements

This course requires a PC or Mac. Chromebooks and tablets do not work for this course. The PC or Mac needs to have 4GB of memory and 30GB of free disk space.