

# S. Jun Hong

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## Skills

TypeScript · JavaScript · Python · Java · React.js ·  
Node.js · FastAPI · SQL · Git · CI/CD · Docker · AWS  
(CDK · VPC · EC2 · ECS · ECR · S3 · RDS)

## Awards

PennApps'21 Hackathon - Top 9 & Route Winner  
CCSC:MW 2021 Contest - 2<sup>nd</sup> place  
MakeUC & DivHacks – Route Winner  
St. Mary's 2018 Data Science Hackathon - 3rd place

## Experience

### Software Engineer Intern

5/2021 – 8/2021

The Tenzer Technology Center, DePauw University, Greencastle IN, USA

- Set up the AWS environment to manage student website hosting.
- Implemented policies for IAM Users, S3, and EC2 to manage user permissions on the AWS resources.
- Documented the process of building the environment and the ways to deploy frontend and backend application on AWS platform to help students understand the cloud platform.
- **Technologies and Skills:** AWS IAM, EC2, S3

### Software Engineer Intern

3/2020 – 7/2020 & 1/2021 – 2/2021

SeeAnn Solution, Incheon, South Korea

- Developed a CRM web application and desktop application for managing EEG brainwave data.
- Visualized 12500 electrophysiology signals per second flowing from Intan board. Successfully incorporated open-source data pipeline of the board into the application.
- Designed and implemented high-performing features that handles graphs of 64 channels. Allows user to visually check the data with play, pause and reset functions.
- **Technologies and Skills:** React.js, Node.js – Express, MySQL, Qt, Git

### Information Technology Associate

8/2017 – 5/2018 & 8/2020 – Present

DePauw University, Greencastle IN, USA

- Web Development Intern: Developed DePauw Art Exhibition Web application for the annual DePauw art exhibition. Showed student artworks on the map with descriptions and real-time user location.
- **Technologies and Skills:** React.js, Google Maps API.

## Projects

### Picme, vote your favorite picture! – Backend (In process to publish to the App Store)

- Led a team of six junior-level designers and software engineers.
- Architected modular, extendable, and easily maintainable REST APIs microservices based on the Hexagonal Architecture.
- Set up highly available, fault-tolerant infrastructure using AWS CDK (IaC) and implemented automated CI/CD pipeline with dockerized application considering secured access to cloud resources.
- Reduced the AWS cost by 60% by optimizing VPC with VPC endpoints.
- **Technologies and Skills:** TypeScript-Node.js (Express, TypeOrm). Docker, AWS CDK, Git, OAuth2.0, Postman.

### Coholy, drinks review app – Backend

- Team project. Structured architecture of microservices using Domain Driven Design (DDD) principles and focused on decoupling of layers.
- Documented and implemented scalable RESTful APIs for drink and review domains.
- Applied Test-Driven Development (TDD) strategy and implemented unit tests for each layer independently. Total 92 tests with 94% test coverage achieved.
- Automated tests, build, and deploy cycle using GitHub, Buddy, Docker, and GCP.
- **Technologies and Skills:** Python (FastAPI · SQLAlchemy · pytest). Docker, Buddy, GCP for CI/CD, Git.

### Algorithm Visualizer – Deployed [Here](#)

- Developed a website of sorting algorithms visualizer which helps students get a visual sense of how algorithms work. It allows users to set the array length and type of algorithms. Exhibited on a campus kiosk.
- **Technologies and Skills:** TypeScript, React, GitHub Actions, Figma, Git.