Seunghwan Hong

harrydrippin@gmail.com
github.com/harrydrippin
+82 10-4550-9287

Summary

I'm a software engineer of Common Computer and undergraduate student of Kookmin University. I enjoy to learn various things and love to try and challenge new things. Currently I'm working on AI Network, blockchain network for distributed computing like learning AI or running research purposed codes. My research area includes open source, deep learning, information security, blockchain.

Professional Experience

Common Computer (AI Network), Software Engineer   **Sep. 2018 – Present**

- Build AI Network web interface and backend for executing distributed computing job with AIN, Ethereum based token for using our service.
  - Implement REST API, Socket based services for communicating between user and distributed blockchain members who are participating to the network as a computing node.
    Web3, Chrome Extension, Typescript, React.js, Express.js, Firebase Realtime Database, S3

BinaryVR, Software Engineer Internship   **Jun. 2018 – Aug. 2018**

- Build framework for managing and annotating dataset
  - Implement REST API, Socket based services for communicating between user and data server. Valid landmark, tongue, and face checker, misaligned image collector, landmark annotator, etc.
    Typescript, Node 10, OpenCV for Node, React.js, Express.js, Redis, DynamoDB, S3
- Deep learning model testing platform based on web app
  - Implement asynchronous P2P direct connection between web browser and model server.
    WebRTC, Python 3, asyncio
  - Implement Javascript DL model class for visualizing landmarks on the real-time camera input.
    WebAssembly, Emscripten, React.js

Jininsa Company, Software Engineer   **Jun. 2017 – Dec. 2017**

- Rule-based chatbot decision framework
  - Implement a framework to make the fitting conversation with users for various situations like singing songs, reading books, end-to-end game, etc.
    Python 3, SQL, Redis, Docker
- RESTful API server framework for mobile application
  - Implement API services for communication with chatbot server and managing user information.
    Flask, Redis
  - Containerize all infrastructures and make a set of scripts for controlling containers.
    Docker, Shell script

South Korea Government's R&D Business, Project Manager, Lead Developer   **Jun. 2016 – Dec. 2016**

- Middle language for block-based programming language
  - Design core concept of language; abstracting one code to another three representation based on user level.
  - Implement language compiler which compiles 'Mocca' code to parse tree and Python.
    C#, Compiler-Compiler

Technical Skills

Languages: Python 3, Typescript, Javascript (fluent); C++, Java (working knowledge)
Frameworks / Platforms: Express.js, Flask (Python 3.x), React.js, Vue.js, AWS, Terraform, Docker
Other Skills: Agile style, Slack, Atlassian Stack (JIRA, Confluence, Bitbucket), Jupyter Notebook, Sketch, Zeplin

Education

Kookmin University (Seoul, South Korea)   **Mar. 2016 – Present**

Undergraduate in Computer Science, Average in Major: 3.86 / 4.5

Publications

Case of Social Contribution Project using Open Source Software Development Principle, **Seunghwan Hong,** Gihyeon Yang, Seongkwon Yoon, Dujin Jeong, Jaeyoung Park, Soochurl Shin, Minsuk Lee, Korea Computer Congress 2018 (KCC 2018), Jeju, South Korea, 2018.

Studying OPEG Score Development for Learning Open Source Software Development Practice, **Seunghwan Hong**, Dong-Gyu Kim, Geon Son, Domin Kim, Soochurl Shin, Dujin Jeong, Rina Choi, Minsuk Lee, Korea Computer Congress 2017 (KCC 2017), Busan, South Korea, 2017.

Honors and Awards

Prize for Best Engineering, 23rd Startup Weekend   **Apr, 2017**

I made sort of system for managing hackathon and evaluating Git projects to exact number of score.

1st Place (South Korea Government R&D Business)   **Dec, 2016**

I successfully completed my projects and achieved the overall first grade in this business.

4th Place (National Competition), 2015 Korea Olympiad in Informatics   **Oct, 2015**

I built new educational programming language which can program with Korean letters.

Contributions and Invited Talks

Openhack: National Union of Engineering School Hackathon   **2017**

Organizer & System Developer

Google Developer Group: Korea, Campus Summer Party   **2017**

Technical Session: Invited speaker ('Reactive Programming for Beginners')

Volunteering Experience

Colored by Software, Lead Member of Technical Staff   **May. 2016 – present**

Non-profit software education voluntary service that educates software to people who are interested in software in the library all over the country. Volunteered as a system developer for this project and built library searching system, lecture searching system, and landing page.