

JAE YOUNG LEE

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Experience

Brilliant Home Technology [Ceased operation on May 1, 2024]

Full-Stack Software Engineer

July 2023 - Current

- Developed Qt framework front-end and Python back-end software for integrating with smart home devices, supporting 21 smart home brands (eg. SmartThings, Philips Hue, Sonos)
- Optimized local device discovery methods (UPnP & mDNS) to reduce device setup wait times
- Integrated with partner smart home brands' cloud APIs for cloud-based discovery and control
- Prevented over 1000 errors per month by resolving critical software issue and leveraging Sentry for software health monitoring
- Assisted with customer support, addressing issues in real-time and optimizing network/partner device interactions
- Proactively managed projects, adhering to specs, documenting processes, and collaborating with cross-functional teams (QA, PM) to define scope and ensure precise implementation

Full-Stack Software Engineer Intern

May 2022 - Aug 2022

- Contributed to the Integration team, focusing on third-party device integration and software management for Brilliant Control
- Launched "Recently Played" feature for Sonos Music Integration by handling Sonos API response and formatting UI, and enhanced user interaction by integrating doorbell functionality with other devices, allowing users to control paired devices during doorbell notifications

Pet food tracking IoT device

MCIT Hackathon Complexity Winner Award | Full-Stack Developer

Jan 2022

- Built a Pet IoT food intake using Arduino hardware with a weight sensor and a web platform using React, Node.js and MySQL on Heroku
- Responsible for developing both front-end and back-end of web platform and analyzed real-time data to create a chart dashboard for users to understand diet of their pets intuitively

IBM Hackathon

App Developer

May 2020 - Jun 2020

- Created solutions for COVID-19 as a project manager and front-end coder in IBM 2020 Call for Code Korea Hackathon
- Utilized React Native and IBM Cloud to build a cross platform app that individuals can easily donate and supply necessities to non profit organizations with transparency.
- Implemented user centered design to help users to quickly learn how to use the app

Skills - Python, C++, Qml, Java, React, Node.js, HTML, CSS

Education

University of Pennsylvania, Master of Computer Science (MCIT) | GPA 3.53

Aug 2021 - May 2023

Johns Hopkins University, BA & MA in Chemistry | GPA 3.71

Aug 2014 - May 2018

Coursework - Database and Information Systems, Computer Vision and Computational Photography, Operating Systems Design and Implementation, Introduction to Robotics