Kevin Kim

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Summary

- 2+ years of work and internship experience in Embedded systems and Android frameworks in video bar products
- Experience in embedded systems, device tree, kernel module, and camera sensor integration in Android platforms.
- Hands-on experience in full-stack REST API servers and Android Application level to C/C++ system APIs.

Experience

Jabra | Software Engineer - Cupertino, CA   Jul 2024 ~ Present

Android, AOSP, BSP, Java, Kotlin, C/C++, GRPC, Network

- Contributed to Jabra's Android-based multi-camera collaboration bar("Panacast 50 VBS", "Panacast 40 VBS"), working on embedded systems and integration.
- Experience in developing and porting system libraries across various Android SoCs(QCS8250, QCS6490, NXP)
- Developed an automation script to restore and recalibrate misconfigured camera sensors deployed from the factory.
- Optimized device tree configurations, modified kernel modules, and integrated camera sensors for Android platform.
- Constructed Android Framework API using IPC(HIDL, AIDL) and GRPC for data exchange across multiple devices.

Jabra | Software Engineer Intern & Co-Op - Cupertino, CA   Jul 2022 ~ Jul 2024

- Developed a gRPC API for remote camera control, enabling dynamic adjustments of sensor settings in the pipeline
- Support A10 to A13 migration, implementing HDMI feature by modifying device-tree and kernel modules.
- Modify NetworkStack and create interface to support network protocols and extensions(LLDP, 802.1X, NTP, DHCP)

Projects

GITLIO - Full Stack Developer | GitHub | Youtube   Apr 2022 ~ Mar 2024

Portfolio design tool and deployment service with AI support - Capstone Design Project

Next.js, React, FastAPI, Zustand, Langchain, PostgreSQL, MongoDB, Docker, AWS

- Led a team in the planning, design, and actively involved in the full-stack development of this project
- Utilized Next.js and the 'dnd-kit' library to create interactive drag-and-drop components.
- Implemented RESTful APIs and global state management using the Zustand and React Query library
- Built and deployed backend server with FastAPI and Langchain to create API for LLM

HeadStart SV Summer Pre-Internship - Backend Developer | GitHub   Jul 2021 ~ Aug 2021

Web service that helps users find a specific person or word in a video.

Python(Flask), PostgreSQL, MongoDB, RabbitMQ, SQLAlchemy, Docker, AWS, FFMPEG

- Developed a web asynchronous REST API server with Python-Flask RabbitMQ and Celery for task queuing.
- Orchestrated AI image processing pipeline and API server utilizing FFMPEG and YOLO V5 for face detection.
- Integrated Grafana and Prometheus for real-time system monitoring and performance analysis.

Skills

- **Development:** Linux, AOSP, BSP, Docker, GRPC, Kafka, Git, Azure, Jira
- **Languages**: C/C++, Rust, Go, Java, Python, Typescript, SQL
- **Frameworks**: Android, Flask, FastAPI, Next.js, React, Spring Boot
- **Databases**: PostgreSQL, MySQL, MongoDB, Redis, Firebase

Education

Technical University of Korea, B.E. Software Engineering   2018 - 2024