

Soraphol (Paul) Damrongpiriyapong

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WORK EXPERIENCE

Google, Software Engineer

Kotlin, Java, AOSP, Android SDK, Python

Teams: Android Intelligence, Augmented Reality

June 2022 - Present

- Leading Notifications workstream for audio and display Glasses
- Applied LoRA finetuning on Gemini Nano to develop custom intent detection and slot filling models to initially spearhead and prototype 'Magic Cue', which launched with the Pixel 10
- Headed the redesign of the notifications pipeline to address synchronization issues and productionisation requirements
- Lead and owned app launcher implementation on Android XR, adding features such as adaptive icons, notification badging, and app suggestions
- Architected IndirectPointerEvent API for Jetpack Compose to natively support touchpad for Glasses

Red Hat, Open Source Software Engineering Intern

May 2020 - August 2021

C, Java, GTK

- Maintained the Eclipse Platform Standard Widget Toolkit (SWT) framework for GTK3 by contributing bug fixes, conducting patch reviews, and triaging bugs
- Planned and monitored the upgrading of SWT to GTK4
- Contributed to SWT GTK4 upgrades by porting functionality of UI widgets, bridging C functions to Java with JNI, and creating automated test snippets
- Overhauled Hi-DPI functionality, eliminating instances where Eclipse was unusable at high resolutions
- Reimplemented cell rendering information for TreeItem insertions and deletion leading to a performance improvement of ~50%
- Implemented a system to allow for widget-based menus to work fluidly with model-based menus

Dot Health, Software Developer Intern

May 2019 - August 2019

TypeScript, Kotlin, React-Native

June 2018 - August 2018

- Successfully co-led the porting of the React-Native app to a native MVVM-based Android app
- Implemented an efficient RecyclerView which supports custom Bezier curve and multiple view types
- Developed network layer for authentication and backend API interface using Retrofit
- Created a generalized health record form system, increasing developer velocity by 70% when implementing new record types
- Built word highlighting and definition modals for health record observation headers

EDUCATION

University of Toronto, St. George Campus

2017 – 2022

B.A.Sc. in Computer Engineering – GPA 3.81/4.0, Dean's Honour List

TA Experience: ECE244 Programming Fundamentals C++ (Fall 2021)

SKILLS

Languages: Kotlin, Java, C++, C, TypeScript, JavaScript, Python, Dart

Frameworks/Libraries: AOSP, Android SDK, Dagger, Docker, d3, Express, Firebase, Flutter, GTK, JAX, MongoDB, MySQL, Node.js, React, React-Native, Retrofit, SeqIO, t5x