

HANBIN BAE

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EDUCATION

Dalhousie University
Bachelor of Computer Science

Sep 2019 – Apr 2026
Halifax, NS

WORK EXPERIENCE

Software Developer Intern
Melaka (Startup)

May 2025 – Aug 2025
Daegu, South Korea

- Migrated on-device block detection from OpenCV (Chaquopy) on Android to TensorFlow Lite in Flutter, enabling real-time on-device inference on mid-range devices.
- Ported the music playback engine and timing logic to Flutter and resolved key playback defects identified during QA.
- Maintained the production Android app with accessibility updates and logic fixes and released 3 versions via Google Play Console.
- Reduced crash rate 70% and ANR rate 50% after accessibility updates and logic fixes, validated in Google Play Console.

Social Service Analyst
National Health Insurance Service

Aug 2020 – May 2022
Daegu, South Korea

- Automated documentation & Excel workflows, trimming report prep time by 20% across a team of 8.
- Standardized recurring task guides, cutting new-hire ramp-up by 3 days and improving handoffs.

PROJECTS

Weather app | *Flutter*

July 2025 – Present

- Built a modular Flutter weather app with Clean Architecture and OpenWeather + AQI integration.
- Added offline cache and pull-to-refresh to improve responsiveness and reduce API calls by 20%.
- Set up CI/CD with GitHub Actions, cutting build and test time.

Attendance Tracker Web App | *React, Firebase*

Aug 2025 – Sep 2025

- Implemented RBAC with Firebase Auth and Firestore rules, enabling scoped reads and writes by role and blocking unauthorized operations in QA.
- Serving 50+ monthly active users across 6 classes, with real-time class lists, bulk import, and an audit log.
- CI/CD via GitHub and Vercel with automatic builds on push, preview deployments for PRs, environment secrets, and one-click rollback on release.

Personal Portfolio Website | *React.js, SCSS, GSAP*

Jan 2025 – Feb 2025

- Implemented interactive animations using React.js, GSAP, and SCSS to enhance user engagement.
- Leveraged Git for version control and deployed the site on GitHub Pages with a custom domain: hanbinbae.dev.
- Automated deploys to GitHub Pages on push with versioned builds and easy rollback.

Beach Information App | *Java, Android Studio, Firebase*

May 2024 – Aug 2024

- Developed an Android app for real-time beach data using Firebase Realtime Database and location services.
- Conducted code reviews and participated in team stand-up meetings to ensure alignment and timely progress.
- Implemented the Firebase Realtime Database integration, enabling efficient storage and retrieval of live updates.

TECHNICAL SKILLS

Languages: Java, Python, C, SQL (MySQL, PostgreSQL), JavaScript/TypeScript, HTML/CSS, Dart
Developer Tools: Android Studio, Git, GitLab, Github, VS Code, Visual Studio, IntelliJ, Eclipse, Figma, Canva
Frameworks and Libraries: React, Node.js, Spring Boot, Flutter, GSAP, SCSS, TensorFlow

VOLUNTEER EXPERIENCE

Vice President (Finance) | *Association of Korean Canadian Scientists and Engineers*

Sep 2023 – Jun 2024

- Built a cost-control dashboard and introduced spend reviews, reducing total event expenses 10% while supporting funding growth.