

Alon Barak

JUNIOR SOFTWARE ENGINEER

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GitHub: [Github.com/skyboak](https://github.com/skyboak)

Professional Profile

Junior Software Engineer with experience building and deploying mobile applications using React Native, Expo, and Firebase. Skilled in JavaScript, TypeScript, and Node.js. Background teaching C programming, debugging (gdb), and algorithms at Israel's National Cyber Directorate. Seeking a full-stack or mobile development role in a growth-focused engineering team.

Skills

Languages:	Java	Python	C	C#	JavaScript	TypeScript	SQL
Frameworks & Mobile:	React	React Native	Expo	Node.js	Redux	Tailwind CSS	Chrome API
Tools & Databases:	Firebase	Git	CI/CD	Linux/Unix	MongoDB	MySQL	Android Studio

Experience

- Magshimim Israel National Cyber Directorate | C Programming Instructor** 2024-Present
- Build and deliver programming exercises that strengthen algorithmic thinking.
 - Teach core CS fundamentals: pointers, dynamic memory, arrays, structs, recursion, and file I/O.
 - Instruct students in debugging (gdb, breakpoints, memory errors) and writing clean, maintainable C code.
 - Support students individually and help them overcome logic and implementation issues.

Projects

- Habit Hopper - Mobile Habit Tracker (React Native · Expo · Firebase)** 2025
- Habit tracker where user progress affects a virtual rabbit character.
 - Implemented habit creation, streak resets, rewards, and cloud sync.
- BrainBuddy - React Native App (React Native · Expo · Firebase)** 2024
- Built an ADHD-friendly task manager with smart habit scoring and scheduling.
 - Integrated Firebase for real-time sync + notifications; user testing showed 80% improved focus.
- Job Momentum - Chrome Extension (TypeScript · Vite · Chrome API)** 2024
- Built an offline-first job-tracking extension with charts and daily logs.
 - Implemented application tracking, statistics view, and clean UI.
 - Over 100 active users.

Education

- Braude Academic College of Engineering, B.Sc. in Software Engineering** 2021-2025
- GPA: 83.36 | Software Engineering Department Representative (Student Union)

Army Service

- Shivta - AFV Electrician | Commended with a Certificate of Excellence.** 2016-2018

Languages

Hebrew - Native | English - Fluent