

IAN REED SHEHADEH

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SUMMARY

Software engineer with a background in programming language design and production fintech systems. Led development through team turnover, kept billing jobs running in production, wrote documentation, and onboarded three new developers.

WORK EXPERIENCE

Techabo (GeekPay)

Remote

Software Engineer

Jan 2025 – Present

- Migrated billing and loan status jobs from Rails to Laravel, serving 11,000+ loans and charging \$2.5M+/mo.
- Shipped targeted fixes that cut monthly support ticket volume from ~250 to ~80.
- Sole remaining engineer through team turnover; owned support, documented processes, onboarded new developers.

Under Armour

Remote

Software Engineering Intern

May 2024 – Aug 2024

- Closed 30+ backlog tickets on both iOS (SwiftUI) and Android (Kotlin/Jetpack Compose)
- Added structured detail to Firebase crash logs, improving triage of recurring production crashes
- Built screenshot share notifications, coordinating requirements across product, design, and QA

PROJECTS

cgajs

<https://github.com/ishehadeh/cgajs>

A library for solving and analyzing combinatorial games in TypeScript

Feb 2025 – present

- BigInt-backed bit boards for unbounded board size and exact positions in JS
- Canonical-form rewriting to normalize and compare arbitrary game trees
- Dyadic rational arithmetic for exact game values

Howlite

<https://github.com/ishehadeh/howlite>

Senior thesis: a low-level programming language targeting RISC-V

Nov 2023 – Dec 2024

- Built parser and type checker in Rust; validated integer-range types and structural subtyping
- Type narrowing in conditionals so control flow refines integer types
- Expresses integer types as a set of continuous ranges, refined by a constraint solver

Janet (open-source contributions)

<https://github.com/janet-lang/janet>

Contributions to the Janet programming language runtime (C)

Jan 2022 – Feb 2022

- Fixed cross-platform async I/O bugs: corrected an epoll flag check on Linux and an overlapped-I/O offset bug on Windows that caused reads to hang
- Implemented rest-pattern destructuring for the match macro, with nested pattern support

EDUCATION

St. Mary's College of Maryland

St. Mary's City, Maryland

Bachelor of Science in Computer Science, Math

Aug 2020 – May 2025

- **Honors:** 3.2 / 4.0 GPA, Dean's List
- **Courses:** Algorithms & Data Structures, Theory of Computation, Analysis, Abstract Algebra I & II
- **Thesis:** Howlite: a low-level programming language targeting RISC-V

SKILLS

- **Languages:** Rust, PHP, TypeScript
- **Backend:** Laravel, PostgreSQL
- **Frontend:** Tailwind CSS, Laravel Blade, Alpine.js, HTML, CSS
- **Tools:** GitHub Actions, Cursor, Jujitsu VCS