Finnbarr O'Callahan

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Senior Full-Stack Software Engineer | Toronto, Ontario, Canada

SKILLS

- **Languages:** JavaScript/TypeScript, C#, Python, PHP, SQL, HTML, CSS, HLSL
- **Frameworks/Libraries:** React, Node, Express, Vue, Svelte, Unity, Three.js, Laravel, PostgreSQL, SQLite
- **Tools/Services:** AWS, GCP, Azure, Cloudflare, Docker, Docker Compose, GitHub Actions, TeamCity, Playwright, Jest/Vitest, Grafana, Git, Claude Code, GitHub Copilot

EXPERIENCE

- **Freegle:** Senior Full-Stack Software Engineer — Nov 2025 - Present
  - Redesigned legacy partner platform integrations with OpenAPI specs and Laravel queues
  - Optimized and fixed Playwright E2E tests, improving speed by 6x while reducing flakiness by 10%
- **Trash Nothing:** Senior Full-Stack Software Engineer — Nov 2025 - Present
  - Owned major features through proposals, product design, technical design, and implementation
  - Performed all front-end development on systems for peer-to-peer messaging and scheduling
- **Start2Finish:** Senior Full-Stack Software Engineer — Mar 2026 - Present
  - Performed all maintenance, bug fixes, upgrades, and support for an online education platform
  - Managed a full-stack React and Express application with AWS infrastructure (ECS, RDS, S3, etc.)
- **Sago Mini:** Software Engineer — Jul 2024 - Jun 2025
  - Led 3 major project proposals including breakdown of tasks, dev time estimates, and prototyping
  - Refactored visual testing pipeline to run 2.5x faster and automate QA in 99%+ of cases
  - Automated change reviews and documentation generation using GitHub Actions and TeamCity
  - Lead support engineer for internal Piknik platform SDK handling accounts, payments, etc.
- **No Bloat Studios:** Co-founder and Lead Software Engineer — Oct 2020 - Dec 2023
  - Architect and lead engineer for a cross-platform online game in Unity/C# reaching 70k+ users across mobile, desktop, and web with a 95% positive rating (store page)
  - Solo backend and DevOps engineer, implemented account management, payment processing, etc.
  - Built Grafana BI dashboards running SQL queries on telemetry and analytics databases
  - Developed a GPU-accelerated 2D lighting system to optimize rendering on mobile and WebGL
  - Reverse-engineered voice chat SDK to add cross-platform support between desktop/mobile/web

PROJECTS

- **CurbFinder:** Full-stack React app to share and find free curbside items in your area (visit)
  - React + TypeScript, Node + Express, PostgreSQL + PostGIS, TypeORM, GCP, Docker, Playwright
- **Polysnip:** Full-stack React app to unwrap 3D models into printable papercraft sheets (visit)
  - React + TypeScript, Three.js, Vitest, Node, SQL, SQLite, Cloudflare serverless infrastructure

EDUCATION

- **University of Toronto:** B.S. Computer Science and English, 3.6 GPA — Sept 2016 - Apr 2020

VOLUNTEERING

- **Toronto Nature Stewards:** City park lead and outreach committee chair — July 2022 - Present
- **Start2Finish:** Fitness and literacy coach for underprivileged children — Oct 2016 - Present