

# Luke Weston

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## Skills

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**Programming Languages:** TypeScript/JavaScript, Rust, Python, C++, C#, Go

**Frameworks & Libraries:** Angular, React, SolidJS, NextJS, ASP .NET Core, Express, RxJS, Axum

**Databases:** PostgreSQL, MySQL, SQLite, MSSQL, Firestore, PgVector

**Tools & Platforms:** Docker, Git, Cypress, Figma, Storybook, Kubernetes, Nginx

**Cloud:** Azure DevOps, GitHub Actions, AWS (S3, EC2, EB, VPC), Google Cloud (Compute Engine, Cloud Storage, OAuth, VPC), Firebase, Supabase

**Areas Of Interest:** Realtime Audio Processing, Vector Databases, Cryptography and Application Security, Multithreading and Asynchronous Patterns

## Experience

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**Software Developer II**, Integrated Parking Solutions

July 2024 – Present

- **Developed** a multi-platform parking management system using Angular, .NET, and MSSQL, enhancing operational efficiency and user experience.
- **Created** a comprehensive design system with Figma, Storybook, and TailwindCSS, streamlining the development process and ensuring UI consistency.
- **Engineered** a row-level security schema to support multi-tenancy and role-based permissions, strengthening application security.
- **Adopted** modern Angular patterns (standalone components, signals), improving code maintainability and developer productivity.
- **Automated** build pipelines using Azure DevOps, Docker, Kubernetes, and Nginx, increasing deployment reliability and reducing release times.

**Software Developer**, OWL Computing

February 2023 – July 2024

- **Designed and Developed** an in-house Shopify management tool for order tracking and custom garment creation using React/Next.js, Supabase, and PostgreSQL, improving order management efficiency and visibility.
- **Implemented** design patterns such as the strategy pattern and reusable hooks, enhancing code maintainability and scalability.
- **Optimized** order processing and management services, achieving a 1000% increase in process speed by resolving Node.js asynchronous runtime inefficiencies.
- **Led** the design, development, and deployment of a real-time, multi-platform financial education and social networking platform using Angular, Ionic, and Firebase, ensuring responsive UI and high performance.
- **Rescued** a critical Angular/.NET software rewrite under tight deadlines by restructuring workflows and effectively triaging issues, resulting in client satisfaction and repeat business.
- **Identified and Mitigated** critical security vulnerabilities including XSS, SQL injection, privilege escalation, RLS misconfigurations, HTTPS/TLS weaknesses, and password reuse, enhancing application security.

## Projects

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**Solid Tauri Looper**

[github.com/lukeweston1234/solid-tauri-looper](https://github.com/lukeweston1234/solid-tauri-looper)

- **Designed and developed** a 6 track, real-time audio looper with FX in Rust, Tauri, and SolidJS.
- **Utilized** the multithreaded actor pattern for lock-free processing.
- **Profiled and identified** CPU bottlenecks with AMD uProf and Flamegraph.
- **Designed and implemented** a custom design system with multiple themes with TailwindCSS.

## Education

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**Michigan State University** – B.A. in Media and Information, concentration in Human-Computer Interaction

May 2022