

# Andrew Murwin

andrew.murwin@gmail.com | 480-309-1214 | <https://www.linkedin.com/in/andrew-murwin/>

## Summary

---

Frontend-focused software engineer with 3+ years building and shipping React/TypeScript applications at enterprise scale. Track record of delivering accessible, high-quality frontend experiences while driving org-wide adoption of shared component patterns and coding standards. Experienced with AI-assisted development tooling and passionate about clean, maintainable code and intuitive user experiences.

## Skills

---

**Frontend:** TypeScript, JavaScript, HTML, CSS, React, React Router, GraphQL, Apollo Client, Webpack, Figma

**Testing & Tooling:** Jest, React Testing Library, GitHub Copilot, Claude Code, Git, JIRA

**Backend & Data:** Node.js, Python, MongoDB, pandas, PyTorch, .NET/C#

## Experience

---

**Software Engineer II**, Starbucks – Phoenix, AZ May 2023 – Present

- **Design System:** Led modal component consolidation effort in partnership with design by auditing 30 existing implementations, reconciling conflicting modal requirements, and delivering a scalable, reusable pattern that reduced modal implementation time by 80%
- **Routing Standardization:** Designed and drove org-wide adoption of a React Router search parameter pattern that auto-standardizes parameter validation and default values, reducing bugs and accelerating feature development across teams
- **Testing Infrastructure:** Designed and shipped a standardized Jest test wrapper now used in 90% of new React component tests across the codebase, fixing the most common developer testing gaps and establishing shared test ownership patterns at scale
- **Microfrontend architecture:** Built a proof-of-concept microfrontend implementation using Webpack Module Federation, demonstrating feasibility of decoupling a shared codebase to accelerate co-located team feature development and reduce deployment dependencies
- **Webpack v4 → v5 Migration:** Led full codebase migration and achieved a 38% bundle size reduction through tree shaking, code splitting, and reducing unnecessary region support; reduced build times, speeding up testing and development workflows and unblocking adoption of Webpack 5 features including Module Federation

**Web Development Intern**, Starbucks – Phoenix, AZ May 2022 – Aug 2022

- Designed and implemented a Role-Based Access Control (RBAC) feature using React and GraphQL; enhanced application accessibility with WCAG 2.1 AA compliant features, including ARIA labels and improved color contrast

**Software Engineer Intern**, Comtech Telecommunications – Tempe, AZ Dec 2021 – May 2022

- Built a full-stack project contribution dashboard using .NET MVC, with RBAC features via C# LDAP integration against Microsoft Active Directory

**Business Data Analyst (Freelance)**, Mindful Planet – Phoenix, AZ Jan 2018 – Jan 2025

- Automated Excel reporting using Python (pymongo, pandas, xlsxwriter) to extract and transform data from a MongoDB database, establishing a repeatable data pipeline for report generation and documenting the shared database structure for contractor onboarding

## Projects

---

**The Efficacy of Different Timesteps in Data when Predicting Cryptocurrency Prices**

- Investigated ML model performance across timesteps for crypto price forecasting using a Python/pandas/PyTorch pipeline; successfully predicted short-term trends while identifying generalization limitations in long-horizon forecasts

## Education

---

**MS, Computer Science (Big Data) | Arizona State University** Dec 2023

**BS, Computer Science | Arizona State University | Barrett, The Honors College** Dec 2022