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Top Skills

Augmented Reality (AR)

React Native

Swift (Programming Language)

Colby McHenry

Mobile Engineer | React Engineer | Building Intuitive and Engaging
SPAs | 15+ Years of Experience in UI Design and Full-Stack
Development
Chicago, Illinois, United States

Summary

I'm a self-taught engineer and product builder based in Chicago
with roots in Atlanta. I've been creating and shipping software since
I was a teenager, starting with Java, Linux servers, and my own
VPS hosting business at 17. That early hands-on experience taught
me how to move fast, solve real problems, and think like both an
engineer and a founder.

Today, I specialize in building mobile apps, custom Shopify
experiences, and full-scale web applications. My skill set spans
React, React Native, Expo, Swift, Kotlin, Node, Laravel, TypeScript,
ARKit, ARCore, Figma, NestJS, NextJS, and a wide range of
modern frontend technologies. I also work extensively with AI
systems, crafting custom embeddings, vector databases, tailored
chatbot experiences, and agentic systems that automate tedious
and repetitive business workflows. I have developed everything
from high-performance SPAs and AR systems to subscription
engines, mobile machine learning features, product configurators,
dashboards, and brand-focused e-commerce sites.

What sets me apart is that I think beyond the code. I bring product
design, UX thinking, and brand awareness into every project. I
help clients clarify their goals, map out user flows, maintain proper
documentation, and build digital experiences that feel effortless. I
value communication, transparency, and taking ownership, the same
qualities that helped me manage and scale my own products over
the years.

I work best with founders, teams, and companies who want more
than an engineer. They want a partner who can contribute strategy,
solve problems creatively, and bring original ideas to the table. That
is the space where I operate.

Experience

Amniscient LLC
Mobile Engineer, Senior Fullstack Engineer
August 2023 - Present (2 years 5 months)
Texas, United States

→ Led the end-to-end development of advanced augmented reality features using Swift on iOS and Java/Kotlin on Android, enabling consistent cross-platform functionality.
→ Integrated React Native to create a unified mobile experience and bridge native AR capabilities into a shared application layer.
→ Built interactive 3D and AR workflows using ARKit, ARCore, Filament, and OpenGL, enabling high-fidelity rendering and real-time model interaction.
→ Architected a custom object-capture system using trigonometry, AI-driven guidance, and native modules to deliver an accurate and intuitive capture process.
→ Ran a custom ONNX vision model directly on-device for iPhone after quantizing and optimizing it for performance, enabling efficient real-time inference within the capture flow.
→ Developed native modules to extend device-level performance, unlock hardware-specific behavior, and optimize the overall mobile experience.
→ Translated Figma design systems into polished, production-ready interfaces with attention to usability, performance, and visual detail.
→ Built reliable client–server communication flows using structured API logic for consistent data handling across mobile and web environments.
→ Developed custom ReactJS dashboards using TypeScript and TailwindCSS, focusing on responsive layout, clarity, and engineering efficiency.
→ Prioritized accessibility and inclusive design throughout the product, ensuring compatibility across device sizes, abilities, and user contexts.
→ Created smooth native animations and transitions to elevate the user experience and bring clarity and refinement to complex interactions.

CereTax
Lead UI Engineer
September 2022 - May 2023 (9 months)
Atlanta, Georgia, United States

→ Architected a large-scale Single Page Application with a custom component framework built on React, Context, Redux, WebWorkers, and structured API pipelines, improving application performance, maintainability, and user experience.

→ Led cross-functional collaboration with backend, product, and QA teams to refine data payload structures, strengthen error handling, and implement security best practices across the platform.

→ Designed and implemented a custom tab-based routing system modeled after Excel, enabling fast multi-view workflows and increasing productivity for power users.

→ Introduced a component tagging strategy that enabled the QA team to build more reliable Selenium automation, significantly accelerating test coverage and reducing manual testing time.

→ Engineered an advanced, enterprise-grade table system supporting expandable rows, filtering, sorting, pagination, context menus, column reordering, column visibility, sticky headers, and sticky columns, allowing teams to work efficiently with complex datasets.

→ Contributed to ongoing codebase improvements through documentation updates, architectural reviews, and frontend performance optimizations.

SCS
Senior Full Stack Engineer
January 2021 - September 2022 (1 year 9 months)
Atlanta, Georgia, United States

→ Handled full-stack development work for four major clients, including complete end-to-end implementation for one project, ensuring smooth functionality across both frontend and backend systems.

→ Maintained and optimized a multi-platform tech stack using ReactJS on the frontend and Salesforce with MuleSoft on the backend, resulting in improved performance and stability.

→ Increased backend efficiency by writing optimized Apex scripts in Salesforce, resolving performance bottlenecks that MuleSoft could not process quickly enough.

→ Built and refined multiple Shopify storefronts by implementing Figma designs, producing responsive interfaces and improved customer experiences.

→ Enhanced Shopify functionality with custom jQuery, AJAX, and API integrations, enabling more dynamic interactions and improved site responsiveness.

→ Expanded technical capabilities during the role by developing proficiency in SvelteJS, Apex, and Liquid, allowing for greater flexibility across diverse project requirements.

→ Collaborated with design, backend, and QA teams to clarify requirements, refine workflows, and deliver consistent, production-ready features.

Crypto Startup (NDA)
Full Stack Engineer
March 2018 - January 2021 (2 years 11 months)

→ Maintained a cryptocurrency wallet Single Page Application, focusing on stability, security, and smooth user experience across the platform.
→ Built a real-time dashboard in ReactJS with interactive graphs and live updates for tracking crypto holdings and portfolio performance.
→ Designed and developed an in-app ticketing system that allowed users to submit account issues and receive support directly within the platform.
→ Created a reusable UI library using SCSS, Tailwind, and Flexbox, improving development efficiency and ensuring consistent styling across the application.
→ Collaborated with backend engineers to integrate APIs and ensure accurate, real-time data synchronization throughout the dashboard.

HostLegend
CEO / Founder
March 2013 - January 2015 (1 year 11 months)
Toronto, Canada Area

→ Founded, built, and operated a VPS and dedicated server hosting company that scaled to more than 750 active clients before being acquired by ColoCrossing, LLC.
→ Architected and maintained the full server infrastructure, provisioning dedicated hardware and partitioning it into high-performance VPS environments tailored to client needs.
→ Created automated shell and Bash scripts to streamline updates, security patches, and maintenance tasks, enabling one-command deployment and multi-server management.
→ Developed the company's website using Laravel, PHP, HTML, CSS, and JavaScript, delivering a responsive, user-friendly interface for customer onboarding and account management.
→ Configured, monitored, and optimized all web and application servers to deliver stable, secure hosting for 750+ end users.
→ Identified and mitigated vulnerabilities across the stack through continuous security hardening, patching, and proactive threat monitoring.
→ Implemented rigorous backup and disaster recovery systems, ensuring data integrity, retention, and rapid recovery during critical incidents.
→ Provided direct support to customers by diagnosing and resolving system issues, maintaining high satisfaction and trust through clear communication and fast turnaround.

→ Maintained a flexible and responsive operational schedule, personally handling after-hours incidents and emergency resolutions to uphold uptime commitments.

→ Supported early growth through branding, SEO, social media strategy, and marketing initiatives that drove customer acquisition and long-term visibility.

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Education

Dalton State College
Bachelor's degree, Accounting and Finance · (2015 - 2018)