

# ANDREW KIPROFF

## UI/UX ENGINEER



### OBJECTIVE

To lead and contribute to the design and development of cutting-edge, user-centric applications that push the boundaries of innovation and interaction. Seeking to collaborate with a dynamic, forward-thinking team that values creativity, continuous learning, and trust, while driving impactful solutions in the evolving tech landscape.



### EXPERIENCE

#### Senior Software Developer - Full Stack

Pantherx Specialty Pharmacy - Pittsburgh, Pennsylvania

February 2022 - Present

- Rebuilt legacy systems into modern, scalable web applications using **Angular, RXJS, and .NET framework**, improving performance and maintainability.
- Designed and developed mobile applications for **Android and iOS**, delivering a seamless user experience.
- Developed robust back-end solutions using **.NET Core and Entity Framework (EF) repositories**.
- Replaced a legacy patient form ingestion system with a **self-architected solution**, saving the company **\$100,000 per year**.
- Architected and deployed **SMS chatbots via Twilio**, integrated with **front-end dashboards** for tracking patient statistics.
- Built **Azure Functions** and used **Azure Event Service Bus** for data harmonization between legacy and modern databases.
- Implemented data harmonization processes to **bridge old and new systems**, ensuring data integrity.

#### Front-end Tech Lead / Senior Engineer

UPMC ISD @ eBenefits - Pittsburgh, Pennsylvania

February 2018 - February 2022

- Developed and maintained a modern **Angular** web application, leveraging **RXJS** for managing asynchronous data streams and handling complex data flows through observables and subjects.
- Utilized key **RxJS** operators such as **map, filter, switchMap, concatMap, and mergeMap** to efficiently transform and combine data streams.
- Handled errors in streams using **catchError** and **retry**, ensuring application resilience in the face of API failures.
- Skillfully combined multiple streams using **combineLatest, forkJoin, and zip**, enabling efficient handling of interdependent data flows.
- Integrated **BehaviorSubject** and **ReplaySubject** for state management and maintaining real-time data synchronization across components.
- Optimized memory management in Angular by applying methods like **take, first and takeUntil** to prevent memory leaks.
- Collaborated with back-end developers to integrate **RESTful services**, handling authentication via **MSAL and Azure AD B2C**.
- Utilized Angular's DI system for loosely coupled, testable services.
- Implemented **lazy loading and change detection** strategies like **OnPush** for better performance.
- Wrote **unit tests with Jasmine and Karma** to ensure component reliability.
- Participated in Agile development, including **sprint planning and code reviews**.



#### Front-end

Angular (7+ years), CSS Master  
RXJS (Advanced), TypeScript,  
SEO, Material Library

#### Back-end

.NET Core/EF, PHP/MySQL,  
RESTful APIs, C#, SQL, NoSQL

#### Design & Video

Application Theming, Figma,  
Adobe Ps Ai Pr

#### Cloud & Integrations

Azure Functions/ESB, Twilio

#### Mobile Development

Ionic, Android, iOS

#### AI & Python

Agentic-RAG, FastAPI  
Flask, NumPy, Prompt  
Engineering, Prediction  
Analytics

#### Tools & Version Control

Git, Azure Blob Storage, Docker,  
Azure Data Studio, SSMS,  
Rider, VS Code, Visual Studio

#### Agile Methodologies

Scrum, Sprint Planning,  
Code Reviews

#### Testing

Jasmine, Karma, Mock

#### Authentication & Security

MSAL, Azure AD B2C, Twilio,  
DUO, Entra

## Freelance Developer

Andrew Kiproff, LLC - Pittsburgh, Pennsylvania

May 2013 - February 2018

- Collaborated with organizations **worldwide**, designing and developing e-commerce, portfolio, and blog solutions for an **international audience**.
- Actively sold freelance services, **marketed personal brand**, and pursued new business leads, **successfully expanding client base**.
- Boosted traffic and enhanced page rankings through strategic website structure improvements and performance optimization.
- **Managed all aspects of client relationships**, from lead generation and proposal writing to contract negotiation, ensuring **successful project delivery and ongoing client satisfaction**.
- Cultivated **strong interpersonal communication skills** by working directly with clients, gathering requirements, and translating business needs into technical solutions.
- **Developed UX/UI strategies**, including **wireframes and mockups**, tailored to small and medium-sized enterprises, resulting in user-friendly experiences.
- Conducted **Search Engine Optimization (SEO)** for local and global visibility improvements, driving targeted organic traffic.

## Contact

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Cheswick, PA 15024

## Adjunct Professor - Web Development & Design

University of Colorado - Boulder, Colorado

August 2015 - August 2016

- **Designed and taught an innovative curriculum** to introduce web development principles such as **HTML, CSS, and JavaScript** to graphic design students, focusing on creating interactive web applications.
- **Engaged students** in the development of real-world, interactive projects, **inspiring them to see the joy of programming** in transforming their **creative designs into functional websites**.
- Encouraged students to use **modern front-end technologies** and **fostered an interest in user-centered design**, laying the foundation for understanding UI/UX and responsive design.
- **Adapted teaching to accommodate various skill levels**, enabling students to transition from design to web development, further building skills necessary for modern development practices.



## START-UPS & PERSONAL PROJECTS

### Full-Stack Web Development with Node.js and Express

- Developed robust full-stack web applications utilizing Node.js and Express.js, creating scalable RESTful APIs to handle complex business logic and database integration.
- Implemented authentication, session management, and third-party API integration, ensuring secure and reliable app functionality.

### Real-time Communication with WebSocket Servers

- Designed and deployed real-time communication features using WebSocket servers and socket.io, enabling seamless, low-latency interaction for chat applications, live updates, and online gaming platforms.
- Optimized server load and response times, handling high-volume traffic with efficient event-driven architecture.

### Desktop Application Development with Electron

- Built cross-platform desktop applications using Electron and Angular, delivering rich user interfaces and ensuring compatibility across Windows, macOS, and Linux.
- Integrated native OS functionalities and third-party services, resulting in responsive, feature-rich applications for personal finance, productivity tools, and media management.

### AI-Powered Applications using Agentic-RAG

- Developed AI-powered applications utilizing agentic-RAG methodologies to convert abstract topics into educational videos, providing dynamic and interactive learning experiences.
- Created systems to predict stock market trends, leveraging historical data and real-time feeds, as well as predictive models for NFL plays using live player data to forecast outcomes in real time.



## EDUCATION

### Masters of Science

Information and Communication Technology for Development

University of Colorado - Graduated with Honors 2017

### Bachelors of Science

New Media: Interactive Development

Rochester Institute of Technology - Graduated 2012

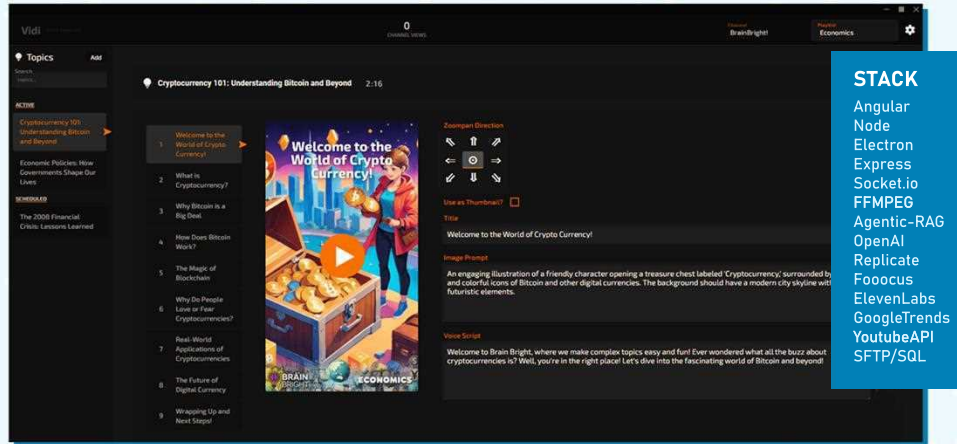
# ANDREW KIPROFF

## UI/UX ENGINEER PORTFOLIO



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### Vidi - AI Video Suite

Status: Closed Alpha

2024

Vidi is an AI-powered video creation suite designed to streamline the entire content creation process for YouTube channels. By leveraging generative AI and agentic-RAG, Vidi automates the process of identifying trending topics through Google Trends, creating videos, analyzing the results, and publishing new content on an AI-determined schedule. It also takes the hassle out of generating new ideas by pinpointing popular video topics for specific niches.

Best suited for creative minds with a knack for business analytics, Vidi offers a simple and intuitive user interface, guiding users through the workflow using a kanban-style sidebar. It combines the entire content pipeline, from concept to publication and process improvement, all with minimal user effort.

Vidi can go from concept to entertaining video in under 5 minutes, and at a cost of less than 10 cents per video, making it a game-changer in terms of time, cost, and resources compared to traditional video methods. It holds the potential to generate significant revenue.

### Apex Legends Assistant

<http://andrewkiproff.com/apex>

Status: Live

2021

Apex Legends Assistant is a tool designed to inspire players to explore different characters and enhance gameplay by adding an element of randomness. The assistant randomly selects a character each game and provides a detailed breakdown of their move set, including cooldowns and descriptions. It also features intro videos explaining the character and guide videos from professional players on how to play them effectively, along with backstory details.

Aimed at both new and experienced players, the assistant allows users to customize the cadence at which characters are selected, whether it's for every game, weekly resets, or other common intervals, adding flexibility and fun to the player experience.

The project presented a challenge in creating a stunning, fluid user interface with eye-catching animations that mask load times, ensuring usability and an engaging experience. The assistant was also an opportunity to explore new Angular templating and signals features.

By encouraging players to try different characters, Apex Legends Assistant not only keeps the game fresh but also helps players learn to counter the abilities of other characters, ultimately improving their main character's gameplay. It alleviates the burden of choice, especially with over 20 characters, helping players decide which character to focus on.



### Personal Sandbox

<http://drodario.us>

Status: Live

Drodario.us is a personal UI/UX sandbox site where I explore creative web development projects and continuously hone my design skills. It serves as a playground for experimentation with Angular, various web APIs, and hand-crafted CSS, all built in a freestyle fashion without the use of mockups.

Primarily for my own skill development, I also create projects for family and friends, such as the "Palword Tracker," a simple, gamified checklist for tracking in-game collections, and "Stratagem Hero," a web clone of a training game from the popular third-person action title, Helldivers 2.

What makes Drodario.us stand out is the interactivity of its elements, the intuitive and simple layout, and its support for various input methods, including Xbox and PlayStation controllers. The site's aesthetics are visually captivating, and the user experience is designed to be top-notch.

I use Drodario.us to stay up to date with the latest UI/UX trends and to express my creative passions, especially when those skills are underutilized in my job roles. This project provides me with a platform to push my limits and continuously improve my skills every day.

