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Maximilian Hollis

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SKILLS AND TECHNOLOGIES

- **Programming languages**: TypeScript • JavaScript • JS/HTML/CSS • Rust • OCaml • Ruby • C • Java • Python
- **Technologies:** Node • Express • React • Next.js • Vite • Vue.js • Styled-Components • Redux • MongoDB • Postgres • Redis • Stripe • Tokio • Axum • Flask • Django
- **Software development tools**: Visual Studio Code • IntelliJ • Clion • Android Studio • Eclipse • Vim > Emacs • Git • Figma • Postman • DataGrip • Stack Overflow/Exchange
- **DevOps**: AWS • Heroku • MongoDB Atlas • Redis Labs • Docker • Podman • Linux • GitHub

EXPERIENCE

Fetch Monitors • Remote • github.com/Fetch-Monitors **2021 - Present**

Full Stack Developer

- Created responsive web apps using React, Next, and React-Query, achieving a 100% score on Google Lighthouse.
- Reduced costs by 40% by migrating from PaaS providers (Fly.io, Heroku) to IaaS providers (Hetzner, Digital Ocean).
- Developed a no-code DOM selection tool that enables end users to directly interface with and analyze updates in HTML.
- Implemented a custom, lightweight, and secure authentication system using JWTs, OAuth, and REST.
- Drove a 30% increase in conversions through Netlify Split (A/B) Testing, monitoring results with Stripe and analytics.

Platinum Labs (formerly Platinum Robotics) • Remote • github.com/Platinum-Robotics **2019 - 2021**

Full Stack Developer

- Engineered multiple fully cross-platform desktop apps using Electron, React, Redux, and Next.
- Created backend infrastructure for billing and user info using Node, Express, Stripe, and MongoDB.
- Migrated Chrome extension from Create React App (CRA) to Next, resulting in a performance boost of approximately 60% and a 10% increase in user engagement.
- Designed and developed responsive landing pages for Platinum products and services.
- Optimized performance by replacing paginated views with dynamic, viewport-responsive virtualization and culling, resulting in a decrease of up to 40ms (per frame of stuttering).

PROJECTS

Ski Track • Crowdedness Tracker for Ski Resorts *Hugging Face Transformers, Flask, React*

- Utilized Hugging Face Transformers and a tuned model for image recognition on ski resort webcams.
- Deployed Flask Inference API for fast and efficient image recognition using GPU acceleration.
- Created a user-friendly interface with React to display live feeds, bounding boxes around people, and a crowd meter.

Ethereal2 • UI Library for React *React, TypeScript, Styled-Components*

- Designed a beautiful, modern, and accessible UI library for React.
- Implemented efficient animations and transitions for delightful and performant user experiences.
- Created a powerful theming system for easy customization, including a built-in dark mode.
- Utilized by Fetch Monitors and Platinum Labs, serving thousands of customers.

EZ UMD • Class Schedule Generator for UMD *React, TypeScript, Rust*

- Generated class schedules based on user inputs, optimizing for professors and sections that align with students interests.
- Used natural language processing to calculate the sentiment and alignment of reviews with students' elected priorities
- Developed a feature to analyze, flag, and de-prioritize reviews that are of troll, spam, and/or hateful nature.

Musely • Cross-platform Music Player *React, TypeScript, Rust, Tauri*

- Sleek and modern cross-platform music player for desktop, supporting Linux, Windows, and Mac.
- Features efficient and synchronized multi-device playback over WebSockets.

All listed projects are open source and available on GitHub: github.com/MaximilianHollis

EDUCATION

University of Maryland • Computer Science • College Park, MD **Graduation: 2025**

Relevant coursework: Algorithms (CMSC351) • Organization of Programming Languages (CMSC330)
Discrete Structures (CMSC250) • Computer Systems (CMSC216) • Calculus III (MATH241)

HONORS

Top 10 - Best Hack that Helps the Community • PennApps XX • 771 participants **2019**

- Developed a web application using React, Next, and Tensorflow to assist individuals with vision impairments.
- Implemented object detection and spatial audio to provide users with a sense of their surroundings through sound.

Winner - MD-07 • Congressional App Challenge • Presented to late Congressman Elijah Cummings **2019**

- Created using React and Next, integrating a Tensorflow.js model to predict the spread of PM pollutants.
- Demoed to esteemed individuals such as Congressman Elijah Cummings and the MD-07 Congressional Delegation.