DYLAN BLACK – FULL STACK DEVELOPER

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EXPERIENCE

2023-Present | Software Engineer | Headlight Solutions — *Ground freight management system.*
- Independently developed a mobile web app with React and Ruby on Rails for generating customizable, signable order receipts. The app led to the acquisition of many new clients.
- Designed and coded a dynamic form generator with React Hook Form and Active Admin, enabling clients to add custom form fields to the order receipt app without relying on developers.
- Collaborated with a UI/UX designer to overhaul and restyle the frontend of BuildMyLoads, utilizing Bootstrap and React-JSS to create modern, responsive, and intuitive UIs that have dramatically improved the look and feel of the app.
- Built a web scraper for gathering data about parts available from a pipe distribution warehouse.
- Worked on numerous backend features, such as enhancing truck routing logic, supporting photo uploads, filtering orders by search criteria, and much more.

2022-2023 | Software Engineer | SitScape — *No-code, drag and drop app builder.*
- Constructed a drag and drop layout system for arranging and styling widgets using React, TypeScript, and Redux.
- Added nested layouts using a hierarchical tree graph to support complex designs.
- Led effort to develop extensions of the layout system.
- Refactored the toolkit for styling widgets by programmatically applying Tailwind CSS classes.

2018-2022 | Postdoctoral Scholar, Philosophy of Cognitive Science | Xi'an Jiaotong University
- Published in competitive, peer-reviewed journals while teaching advanced courses in philosophy.

SKILLS

React.js, JavaScript, Ruby on Rails, Ruby, TypeScript, Python, Git, Github, Zsh, HTML, CSS, Bootstrap, Tailwind CSS, Redux, Jest, RSpec, Capybara, SQL, PostgreSQL, MySQL, DS&A, Agile & Scrum, RESTful API, MVC & OOP, SOLID, TDD, CI/CD.

PERSONAL PROJECTS

Kind Loans — *Microloans charity app for women entrepreneurs in Uganda.*
- Led a small team of developers at the Murphy Charitable Foundation in cooperation with a UI-UX team.
- Used the Django REST Framework and Vite to build out a simple prototype.
- Containerized the application to simplify development and deployment using Docker, Docker Compose, and Nginx.

Polyglot AI — *Language learning app.*
- Queried the ChatGPT API to rewrite lessons to match the user's language level.
- Implemented user registration with JSON Web Token and bcrypt for secure authentication and password security.
- Created e-reader from scratch using SVG text and the React Resize Detector to paginate lessons into turnable pages that dynamically resize to the user's viewport.
- Integrated Cloudinary image hosting and automated transformations.
- Used Google Translation API to provide users instantaneous translations.

Restroom Finder — *Ruby on Rails API.*
- Authenticated user WeChat IDs using Tiddle and Devise.
- Geocoded restroom coordinates to route users to nearest restrooms in real time.
- Seeded database with 5000+ public restrooms scraped from the Tencent API while screening for overdensity and underdensity.

EDUCATION

- PhD in Philosophy, Indiana University Bloomington (2018).
- MA in Philosophy, Northern Illinois University (2011).
- BA in Philosophy, University of Kansas (2009).

INTERESTS

Consciousness, science fiction, Mandarin, hiking, technology.