

Ken Lu Resume

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EDUCATION

Binghamton University, State University of New York

Expected May 2024

Bachelor of Arts in Mathematical Sciences

Cumulative GPA: 3.65 /4.00

Relevant Coursework: Text Mining, Spatial fundamentals in R, Linear Algebra, Topology

TECHNICAL SKILLS

Languages: Javascript, Ruby, React, HTML, CSS, Python, R

Software and OS: Visual Studio Code, Google Collab, Git, Linux, MacOS

Additional: Ruby on Rails, Bootstrap, NumPy, RSpec, Jest, Webpack, npm, Vite, TailwindCSS

PROFESSIONAL EXPERIENCE

Freelance Full Stack Developer, Full Stack Developer | New York, NY

July 2024 – Present

- Developed a full-stack eCommerce web app for a client's business using Ruby on Rails, leading to a 30% increase in online sales.
- Designed and managed the database schema to efficiently handle over 1,000 product listings and 10,000 customer records.
- Integrated secure payment gateways to facilitate online transactions, processing over \$10,000 in sales per month.
- Collaborated with the client to understand business requirements and deliver a solution that meets their needs, resulting in a 20% growth in the client's customer base.

PROJECT EXPERIENCE

Messenger App, Web Developer | Independent Project

June 2024 - July 2024

- Developed a web application enabling users to send and receive messages using React.js for the front-end and Ruby on Rails for the back-end.
- Designed and built RESTful APIs to manage user authentication and authorization using Devise-api gem, to ensure secure access and data integrity.
- Engineered real-time messaging features, enabling instant message delivery and receipt between users by using Action Cable, integrating WebSockets for real-time updates.
- Conducted extensive testing using RSpec and Factory Bot, achieving 95% test coverage and reducing bug incidence by 30%.

Wheres Waldo, Web Developer | Independent Project

February 2024 - March 2024

- Integrated React with Rails, using React components to build a dynamic and interactive user interface for the photo tagging functionality.
- Created and managed RESTful APIs in Rails to handle user interactions and game logic, ensuring seamless communication between the frontend and backend.

University Club Match Quiz, Team Member | Group Project

January 2024 - February 2024

- Developed a club match quiz with improved personalization capabilities, leveraging web scraping to gather club data and JSON conversion for seamless integration.
- Engaged in a team of 4 to execute various aspects of the project, including web scraping, data conversion, personalization algorithm enhancement, and user interface optimization, ensuring a comprehensive and cohesive implementation.
- Analyzed and improved personalization algorithm, increasing quiz accuracy by 20%. and a 30% increase in user engagement.

Stellar, Web Developer | Independent Project

December 2023 - January 2024

- Engineered a social media platform mimicking core functionalities of popular networking sites (e.g., Facebook, Twitter), enabling users authentication through GitHub OAuth and Devise
- Integrated Hotwire technology to enhance site responsiveness and real-time interactions using turbo frames and turbo streams.
- Conducted unit tests, integration tests, and system tests using RSpec and Capybara.
- Deployed the social media platform on a PaaS provider such as Fly.io and leveraged Amazon S3 for storing and serving assets, ensuring efficient handling of images and other media files.