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
Tools & Technologies: Git, Vite, npm, Visual Studio Code, Linux, MacOS, AWS EC2, Firebase, Firestore
Libraries & APIs: MUI (Material UI), Tailwind CSS, Bootstrap, OpenAI API, Stripe API, NumPy, RSpec, Jest, Devise

PROFESSIONAL EXPERIENCE

FlashPrepAI, *Software Engineer & Co-Founder* | New York, NY *Aug 2024 - Present*
- Created and launched an AI-powered flashcard application using Next.js, React, and TypeScript, integrating OpenAI for content generation and Clerk for user authentication, serving over 1,000 active users.
- Crafted a visually appealing and user-friendly front end using Figma for design prototypes, resulting in a 25% increase in user engagement.
- Added Stripe for subscription management and payment processing, achieving a 15% conversion rate for premium plans.

Headstarter AI, *Software Engineer Fellow* | New York, NY *Aug 2024 - Present*
- Built 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by 1000 users
- Developed projects from design to deployment leading 4+ engineering fellows using MVC design patterns
- Coached by Amazon, Bloomberg and Capital One engineers on Agile, CI/CD, Git and microservice patterns.

Freelance Full Stack Developer, *Full Stack Developer* | New York, NY *July 2024 – Aug 2024*
- Produced 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 100 product listings and 1000 customer records.
- Integrated secure payment gateways to facilitate online transactions, processing over $1000 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*
- Prepared 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 capabilities with Action Cable and WebSockets, achieving a 95% reduction in message latency.
- Conducted extensive testing using RSpec and Factory Bot, achieving 95% test coverage and reducing bug incidence by 30%.

University Club Match Quiz, *Team Member* | Group Project *January 2024 - February 2024*
- Conducted a club match quiz with improved personalization capabilities, leveraging web scraping and JSON conversion, improving quiz accuracy by 20% and user engagement by 30%.
- 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.