Shalom Jaison

Frontend Engineer | React + Motion Design | UX-Focused Builder with Full-Stack Range

Frontend engineer skilled in **React**, **Motion Design**, **UX**, **JavaScript** and **TypeScript**. **NotifAI** – shipped a role-based inbox (**React + Node**) in < **12 weeks** and introduced instant hover previews that cut average notification review time from **4 sec to < 1 sec (-75%)**. **Message Analyzer** – engineered an **LLM-powered evidence-extraction service**, wiring few-shot prompts and logic into a **Python/Flask** pipeline in < **12 weeks**; boosted recall **35%** on a **200-chat** benchmark.

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📍 Amherst, MA (Remote or Relocation Possible)

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TECHNICAL SKILLS

Front-End UI/UX	React, Next.js, TypeScript, JavaScript (ES6+), GSAP, LocomotiveScroll, Swiper.js, Lenis, Three.js, Tailwind, HTML/CSS, Figma, Jetpack Compose	**Back-End & Dev-Ops**	Express, Node.js, Python, Java, Solidity, Docker, Git, CI/CD, Linux/Unix, Webpack, Postman, Flask-ML, REST API
Data & ML Tools	Pytorch, ONNX, NumPy, Pandas, Matplotlib	**Databases**	MongoDB, PostgreSQL, SQL

EDUCATION

BS Computer Science + BS Mathematics (Dual Concentrations: Stats & Actuarial Science)
University of Massachusetts, Amherst

09/2021 - 05/2025   GPA: 3.931

– Software Eng, Web Dev, Distributed Applications [Crypto], ML, Computer Vision, OS, Computer Networks, Database Mgmt.

– Multivariate Calc, Linear Algebra, Math of Finance [Derivative Pricing, Financial Markets], Statistical Analysis, Design of Ex.

WORK EXPERIENCE

Frontend Engineer
Duck Creek Technologies (Client Project via CS 320) ↗

02/2025 - 05/2025   Amherst, MA (Hybrid)
Tech Stack: React, JavaScript (ES6+), HTML5, CSS3, Node.js, Express, REST API

– Led **frontend development of NotifAI** from Figma prototypes to production, ensuring responsive web design principles and cross-browser compatibility (Chrome, Safari, Edge).

– Structured the **entire frontend codebase** and authored detailed documentation—setup guides, code explanations, style specs, and API configs—cutting new developer ramp-up time from days to hours.

– Designed and implemented **key UI/UX features** including calendar-integrated reminder bars, interactive sidebars, instant-hover inbox previews, profile modals, and a **multi-window compose popup system** .

– Introduced **snack-bar-style status messages** for alerts, errors, and confirmations, improving feedback clarity during user actions.

– Integrated frontend features with **custom RESTful APIs** using Axios/hooks, collaborating closely with backend engineers to align contracts, resolve integration blockers, and ship without delays.

– Delivered a production-ready MVP in under 12 weeks, with **instant-hover previews reducing notification triage time by 75%** .

Applied ML Engineer
UMass Rescue Lab ↗

02/2025 - 05/2025   Amherst, MA (Hybrid)
Tech Stack: Python, Flask-ML

– Built an **LLM-based forensic tool** to identify **criminal intent (Mens Rea)** and **criminal actions (Actus Reus)** in online chat conversations; delivered backend pipeline and model integration into an existing multi-model UI in **under 12 weeks**.

– Improved evidence-extraction recall by **35%** by solving **prompt engineering** challenges through iterative **few-shot template refinements** and building a **200-conversation true-positive benchmark** for evaluation.

– Designed and implemented an **output parser** to convert raw LLM responses into **schema-locked CSV/TXT/XLSX** formats for investigators, integrating seamlessly into the evaluation pipeline and resolving integration issues through targeted **debugging** .

– Collaborated in **Agile** sprints and weekly scrums, working with **cross-disciplinary teams** to refine prompt logic and evaluation methods, and clearly communicating trade-offs between **accuracy** and **runtime efficiency** .

WORK EXPERIENCE

ML/RL Research Assistant
UMass CICS ⧉

06/2024 - 08/2024   *Amherst, MA (Remote)*
Tech Stack: Python, Numpy, Matplotlib, Seaborn

- Designed a custom **Q-learning framework** with per-state **tau tuning** to optimize **robotic path planning** , accelerating decision-making and reducing **simulated energy consumption**.
- Created **Q-value heatmap visualizations** and **adaptive epsilon-greedy logic** to solve **exploration/exploitation inefficiencies** and **debug** reward progression issues across **10,000+ simulations**.
- Collaborated with faculty researchers, communicating **trade-offs** and **experimental results** to align technical approach with research objectives.

PERSONAL PROJECTS

Sundown Studio Clone [Vanilla JS, GSAP.js, Swiper.js, LocomotiveScroll, HTML, CSS] ⧉
- Rebuilt the award-winning **Sundown Studio** site **pixel-for-pixel** with **responsive layouts** across **320px–1440px breakpoints**.
- Engineered **smooth scroll-linked animations** (**GSAP + LocomotiveScroll**) for fluid, **lag-free motion at 60 fps**, optimizing sequencing to prevent **layout shifts**.
- Developed a **hover-follow image reveal** with vertical carousel-style text animation, **inertia**, and **easing** for a premium interactive feel.
- Designed a **custom grab cursor** for **Swiper.js** card interactions, enhancing the tactile **user experience** across devices.

Two Good Landing Page Clone [Vanilla JS, GSAP.js, LocomotiveScroll, HTML, CSS] ⧉
- Recreated an **Awwwards-winning** landing page **from scratch**, matching **layout**, **typography**, and **animation style** of the original.
- Implemented **GSAP ScrollTrigger timelines** for **scroll-based reveals** , **parallax effects** , and **micro-interactions**.
- Built **device-optimized layouts** for **desktop**, **tablet**, and **mobile** , preserving **animation quality** and **hierarchy** across breakpoints.
- Ensured **visual fidelity** by iterating through **side-by-side comparisons** of the original and recreated versions.

CERTIFICATES

Practical Windows Forensics - TCM Security (02/2024 - Present)
The objective of this course is to show students how to perform a full digital forensic investigation of a Windows system in a complete DIY setup.

VOLUNTEER EXPERIENCE

Livestream Audio Manager
FBC Amherst

03/2022 - 05/2022   *Amherst, MA*

- **Managed live audio mix for weekly church livestreams**, maintaining clear sound quality and zero broadcast interruptions.

Student Volunteer
Emirates Environmental Group

07/2020 - 07/2021

- Collected and recycled **~160 kg of newspapers** plus **30 printer cartridges** for the EEG sustainability drive, diverting waste from landfill

LANGUAGES

English
Full Professional Proficiency

Malayalam
Professional Working Proficiency

Hindi
Limited Working Proficiency

REFERENCES

Prasanna Subramanyam - Teaching Organizer CS 596E; PHD Student at UMass
"I taught Shalom in the 596E class at UMass Amherst, where his team used local LLMs to extract key messages from text conversations. It was a highly open-ended and challenging project, and Shalom stood out for his ability to turn high-level requirements into actionable GitHub issues, maintain clear communication with stakeholders, and adapt to challenges. For example, when faced with the lack of ground-truth data, he and his team devised a creative solution by generating synthetic conversations using larger LLMs and manually annotating them. His problem-solving skills, proactive communication, and adaptability make him a strong asset in any role."

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